E/ECA/PSD.3/42

Provisional Directory of African Data Processing Centre
Répertoire provisoire Centres africains du traitement de L'Information

LC/NAIROBI

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UNITED NATIONS
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PROVISIONAL DIRECTORY OF DATA PROCESSING CENTRES
REPERTOIRE PROVISOIRE CENTRES DU TRAITEMENT DE L'INFORMATION

TABLE OF CONTENTS — TABLE DES MATIERES

	Page	
Introductory note	1 - 2	Note d'introduction
Algeria	3	Algérie
Angola	4	Angola
Botswana	5	Botswana
Cameroon	8	Cameroun
Cape Verde	9	Cap Vert
Central African Republic	10	République centrafricaine
Chad	11	Tchad
Comoros	12	Comores
Congo	13	Congo
Djibouti	14	Djibouti
Ethiopia	15	Ethiopie
Gabon	20	Gabon
Gambia	22	Gambie
Ghana	23	Ghana
Guinea	28	Guinée
Kenya	29	Kenya
Lesotho	33	Lesotho
Liberia	34	Liberia
Madagascar	37	Madagascar
Mali	38	Mali
Mauritius	39	Maurice
Morocco	44	Maroc
Nigeria	45	Nigéria
Rwanda	48	Rwanda
Senegal	50	Sénégal
Seychelles	51	Seychelles

TABLE OF CONTENTS (cont'd)

TABLE DES MATIERES (suite)

	Page	
Somalia	52	Somalie
Swaziland	53	Souaziland
Tanzania	55	Tanzanie
Togo	58	Togo
Tunisia	60	Tunisie
Uganda	61	Ouganda
Upper Volta	62	Haute Volta
Zaire	63	Zaire
Zambia	66	Zambie
Zimbabwe	71	Zimbabwe

ANNEX I

ANNEX II

INTRODUCTORY NOTE

1. The Directory of African electronic data processing centres has been prepared from information collected from the sixth biennal regional survey of data processing capabilities undertaken in 1983. It includes all the data processing centres which responded in 1983 as well as those which provided information only in 1981. The Directory aims at providing, in an easily readable form, concise information on the electronic data processing centres of the region.

2. The Directory contains the particulars 373 data processing centres in 37 countries. Of these centres 30 are engaged on government statistical work.

3. The information contained in this Directory refers to the present computer configuration in the African data processing centres, the software in use, the number of staff employed, the data processing tasks and computer workload, and the training planned.

4. The data are presented by country. For each data processing centre they are, when the information is available, as follows:

1. Number x make and model of central processing unit, primary memory size, date of acquisition, type of tenure;
2. Number x make and model of peripheral devices, short description of these devices;
3. Operating system of central processing unit;
4. Compilers and assemblers in use, and their frequency of use indicated in brackets 1);
5. Software packages in use, and their frequency of use indicated in bracket 1).

5. In addition two annexes show the data processing tasks and computer workload and the list of formal data processing training centres available in the region.

6. It has been decided to consider the present issue of the Directory as provisional, due to the insufficient number of data processing organizational units which responded. Furthermore, the Secretariat hopes that the coverage of the next issue of the Directory will be revised to include only the data processing centres which perform government statistical work.

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1) E = Extensively used, N = Never used, O = Occasionally used.

NOTE D'INTRODUCTION

1. Le Répertoire des centres africains de traitement automatique de l'information a été préparé à partir des informations issues de la sixième enquête biennale sur les dispositifs en matière de traitement des données réalisée en 1983. Il comprend tous les centres de traitement de l'information qui ont répondu en 1983 ainsi que ceux qui ont répondu en 1981 seulement. Le Répertoire vise à fournir, sous une forme facile à lire, des informations concises sur les centres de traitement automatique de l'information de la région.

2. Le Répertoire contient des renseignements sur 373 centres de traitement de l'information dans 37 pays, 30 de ces centres effectuent des travaux statistiques de l'Etat.

3. Les informations contenues dans ce Répertoire concerne la configuration présente des ordinateurs existant dans les centres africains de traitement de l'information, le logiciel en usage, l'effectif du personnel employé, les tâches effectuées en matière de traitement de l'information et le volume de travail, ainsi que les prévisions en matière de formation.

4. Les données sont présentées par pays. Pour chaque centre de traitement de l'information, les données, lorsqu'elles sont disponibles, sont présentées de la manière suivante :

1. Nombre x marque et modèle de l'unité centrale de traitement, capacité de la mémoire centrale, date et mode d'acquisition.

2. Nombre x marque et modèle des unités périphériques avec leur brève description.

3. Le système d'exploitation de ces unités centrales de traitement.

4. Les compilateurs et assembleurs en usage, et leur fréquence d'utilisation indiquée entre parenthèses 1).

5. Les progiciels en usage, et leur fréquence d'utilisation indiquée entre parenthèses 1).

6. Les catégories du personnel, et leur effectif indiqué entre parenthèses.

5. En outre, deux tableaux annexes montrent les tâches exécutées en matière de traitement de l'information et le volume de travail pour les centres chargés d'effectuer les travaux statistiques de l'Etat et la liste des centres institutionnalisés de formation au traitement de l'information de la région.

6. Il a été décidé de considérer comme provisoire l'édition actuelle du Répertoire à cause du nombre insuffisant des centres de traitement de l'information qui ont répondu à l'enquête. En outre, le secrétariat espère que le contenu la prochaine édition sera révisé pour ne couvrir que les centres de traitement de l'information qui effectuent des travaux statistiques de l'Etat.

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1) N - Utilisé de façon extensive, N - jamais utilisé, O - Utilisé par intermittence.

*** ALGERIA/ALGERIE ***

1. DIRECTION GENERALE DE LA STATISTIQUE

   1. 1 x IBM 370/148 — 1 M octet
   2. 6 x IBM 3340 — Unités de disques magnétiques, 70 M Octets chacune
      5 x IBM 3420 — Dérouleurs de bandes, vitesse de transfert 200 K Octets
      2 x IBM — Imprimante, 1200 lignes/minute
      6 x IBM 3270 — Terminaux à écran de visualisation
   3. OS/VS1 et VM/370
   4. FORTRAN(E), COBOL(E), ASSEMBLEUR(O), PL/1(O)
   5. TPL(E), PVS(O), TAB68(O)

*** ANGOLA ***

1. BANQUE NATIONALE

1. 1 x IBM 370/138 512 K Octets

2. INSTITUT NATIONAL DE LA STATISTIQUE

1. 1 x IBM 370/138 512 K Octets 1983

3. TAAG

1. 1 x IBM 370/138 512 K Octets

*** BOTSWANA ***

1. ANGLO AMERICAN CORPORATION

1.	1 x ONYX C 8000	256 K bytes	1982	Owned
2.	4 x Z 19	Key-board terminals, 128 characters		
	1 x ANADEX	Line printer		
3.	OASIS			
4.	FORTRAN (N), COBOL (N), PL/1 (N), ASSEMBLY-(N), RPG (N)			
5.	R. MULLER (E)			
6.	Computer operations staff (8)			

2. B.C.L. LTD.

1	1 x ICL 2904/50	64 K bytes	1979	Rented
	1 x ICL ME 29/35	196 K bytes	1982	Rented
2.	2 x UNIVAC	Card punch machine		
	1 x ICL	Card reader		
	8 x ICL	Direct data entry		
	2	Modems		
	5 x ICL	Line printers		
	1 x ICL	Magnetic tape units		
	6 x ICL	Video display units		

3. EXEC
TME
4. FORTRAN (O) COBOL (E), RPG (O), BASIC (E)
5. MMS (E), QPAC (E), PROSPER (E), PERT (O), FIND (O), QPG (E)
6. Systems and programming staff (2), computer operations staff (2), data entry staff (7)

3. BOTSWANA BUILDING SOCIETY

1.	ADDS MENTOR M4062	1982
3.	PICK	
4.	BASIC	
5.	INFO/ACCESS	

4. BOTSWANA DEBSWANA

1.	1 x ICL ME 29	1024 K bytes	1982	Rented
	1 x ICL 7700-30FF	64 K bytes	1981	Rented
	1 x ICL 1505-20FF	16 K bytes	1981	Rented
2.	4 x ICL-EDS 60	Magnetic disk units, 60 M bytes		
	2 x ICL-MDS 20	Magnetic disk units, 80 M bytes		
	2 x ICL-MDS 40	Magnetic disk units, 160 M bytes		
	1 x ICL 2510	Magnetic tape unit, 1600 bpi, 60 K bytes,		
	1	Line printer, 600 lines/minute		
	1	Line printer, 300 lines/minute		
	14 x ICL 3572	Video display units, 9600 bands, 2000 characters		
	3 x ICL 7502	Intelligent terminal controller		
	9 x ICL 7561	Video terminals		

3. TME
   WORDSHILL
   PMS
4. COBOL (E), RPG (E), FORTRAN (N)
5. QPAC (E), MMS (E), TPS (E)
6. Systems and programming staff (3), computer operations staff (3), data entry staff (6), off-line operations (8).

5. BOTSWANA MEAT COMMISSION

1. 1 x ICL 2903/35	144 K bytes	1978	Rented

6. BUILDERS MERCHANTS

1. 1 x ICL 2903	192 K bytes	1980	Rented

7. DEPARTMENT OF GEOLOGICAL SURVEY

1. 1 x HP 9845B	186 K bytes	1980	Owned
1 x HP 9830 A	35 K bytes	1975	Owned
2. 1 x HP 2631 A	Line printer, 180 characters/second		
1 x HP 9872 C	Graph plotter		
1 x HP 7225 A	Graph plotter		
1 x HP 9874 A	Digitiser, 30 prints/second		
1 x HP 9866 A	Line printer, 240 lines second		

3. HP EXTENDED BASIC
   BASIC
4. HP EXTENDED BASIC (E), FORTRAN (N), COBOL (N), PL/1 (N), ASSEMBLY (N), RPG (N)
5. QUERY 45
6. Off-line operations staff (12)

8. GOVERNMENT COMPUTER BUREAU

1. 1 x ICL 2956	1000 K bytes	1979	Rented
1 x ICL 2946	3500 K bytes	1981	Rented
2. 1 x ICL	Card reader, 600 cards/minute		
1 x ICL KEY-EDIT	12 Key-stations		
9 x ICL EVS 200	Magnetic disk units, 200 M bytes each		
8 x ICL 7501	Mini computers used as communications multiplexors		
3 x ICL 7502	Mini computers used as communications multiplexors		
1 x ICL DRS 20	Micro computers used as communications multiplexors		
28 x RACAL AND CAPUSI	Modems, 2400 bauds		
24 x ICL	Video display units, 25 x 30 alphammeric display		
1 x ICL LP 1500	Train printer, 1500 lines/minute		
1 x ICL CP 720	Train printer, 600 lines/minute		
5 x ICL MT 121	Magnetic tape units, 9-track, 1500 rows/inch		
10 x ICL 7561	Dot matrix printer, 100 characters/second		

3. GEORGE - 2 AND MAXIMOP
   VME - 2400
4. FORTRAN (E), COBOL (E), ALGOL (O), ASSEMBLY (O), BASIC (O)
5. RGSP (E), FIND 2 (E), TPS (E), TPMS (E),
6. Systems and programming staff (10), computer operations staff (6), data entry staff (8)

*** BOTSWANA ***

9. HILL CUNNINGTON BOTSWANA LTD.

1. 1 x ADDS MENTOR M4062 1983
3. PICK
4. BASIC
5. INFO/ACCESS

10. ORAPA DE BEERS

1. 1 x ICL 2904 192 K bytes 1981 Rented

11. SEGWANA LIQUOR

1. 1 x ADDS MENTOR M 4062 1983
3. PICK
4. BASIC
5. INFO/ACCESS

*** CAMEROON/CAMEROUN ***

1. DIRECTION CENTRALE DE L'INFORMATIQUE ET DE LA MECANOGRAPHIE

   1. 1 x IBM 370/158 1500 K Octets Propre

2. DIRECTION DE LA STATISTIQUE ET DE LA COMPTABILITE NATIONALE

   1. 1 x IBM 32 32 K Octets [illegible] 1976 Propre
      1 x CII-HB MINI 6
   2. 4 Perforatrices de cartes
      1 Lecteur de cartes
      3 Lecteurs de disquettes
      1 Terminal
      12 Dispositifs pour enregistrement sur disquettes
      2 Modems
      1 Imprimante
   3. FORTRAN (E), COBOL (E), PL/1 (E), RPG (O), BASIC (E)
   4. SPSS (E), CONCOR (O), CENTS (O)
   5. Système et programmation (5), enregistrement des données (12), opérations autonomes (3).

*** CAPE VERDE/CAP VERT ***

1. DIRECTION DU RECENSEMENT ET ENQUETE

1. 2 x ONYX C 8001 256 K Octets 1982 Propre
   4 x BILLINGS M/S. 64 K Octets 1981 Propre

2 4 x TELEVIDEO 925 Terminal à écran de visualisation
   1 x WINCHESTER Unités disques magnétiques, 40 M Octets
   1 x ONYX Cassettes bandes magnétiques, un quart de pouce, 10 M Octets
   2 x CENTRONICS 354 Imprimante, 200 caractères/seconde
   2 x BILLINGS Unités disques souples, 5 1/4 de pouce

3. OASIS
   OASIS

4. ASSEMBLEUR (O), BASIC (E)
5. SPELLBINDER (O)
6. Système et programmation (2), enregistrement des données (2)

*** CENTRAL AFRICAN REPUBLIC/REPUBLIQUE CENTRAFRICAINE ***

1. BANQUE INTERNATIONALE POUR L'AFRIQUE OCCIDENTALE (BIAO)

   1. 1 x IBM 3/12 — 64 K Octets

2. CENTRA HYDRO

   1. 1 x IBM 3/12 — 64 K Octets

3. OFFICE CENTRAFRICAIN DE SECURITE SOCIALE

   1. 1 x IBM 3/12 — 64 K Octets — 1981 — Propre
      1 x IBM 3/10 — 48 K Octets — 1971 — Loué
   2. 1 x IBM 310 — Perforatrice-vérificatrice de cartes
      1 x IBM — Lecteur perforatrice de cartes
      1 x IBM 5203 — Imprimante, 300 lignes/minute
   4. RPG (E)
   6. Système et programmation (3), opérations de traitement (1), enregistrement des données (7)

4. OFFICE NATIONAL INFORMATIQUE

   1. 1 x CII-HB DPS-2 — 768 K Octets — 1982 — Propre
   2. 1 x CII-HB DDU 404 — Lecteur à disquettes
      2 x CII-HB KDU — Dispositifs pour enregistrement sur disquettes
      4 x CII-HB MSU 0455 — Unités disques magnétiques, 200 M Octets, 806 K Octets/seconde
      2 x CII-HB — Imprimantes 600 lignes/minute
      2 x CII-HB MTU 0100 — Derouleurs bandes magnétiques, 30 K Octets/seconde, 1600 bpi
      4 x CII-HB DKU 7007 — Terminaux à écran de visualisation, 75 à 19200 bits/seconde
   3. GCOS
   4. FORTRAN IV (O), COBOL ANS-MST 6 (E)
   6. Système et programmation (12) opérations de traitement (10), enregistrement des données (11), opérations autonomes (8)

5. UNION BANCAIRE EN AFRIQUE CENTRALE (UBAC)

   1. 1 x NCR

*** TCHAD ***

1. CENTRE INFORMATIQUE, MINISTERE DES FINANCES ET MATERIEL

   1. 1 x IBM 370/115 — 1978

   3. DOS/VS

   4. COBOL, FORTRAN, GAP

*** COMOROS/COMORES ***

1. BANQUE INTERNATIONALE DE COMORES
   1. 1 x ALTOS 208 K Octets
2. FUNAP/DTCD
   1. 3 x ALTOS 8004 208 K Octets 1981 Propre
   2. 8 x PERKIN ELMER 550 Terminal à écran de visualisation, azerty
      1 x TELEVIDEO 920 Terminal à écran de visualisation, qwerty
      3 x TT 820 RO Imprimante, 150 charactères/seconde
      3 x ALTOS Dérouleurs de bandes magnétiques, 10 M Octets
      3 x SA 4004 Unités de disques magnétiques, 29 M Octets
      6 x ALTOS Lecteur de disquettes
   3. OASIS 55A
   4. BASIC (E)
   5. SORT (O)
   6. Système et programmation (2), enregistrement des données (8)
3. ELECTRICITE DE COMORES
   1. 1 x SIRIUS 1983

*** CONGO ***

1. CENTRE NATIONAL DE LA STATISTIQUE ET DES ETUDES ECONOMIQUES

   1. 1 x HP 3000/44 — 2M Octets — 1983

   2. 7 x HP — Terminaux à écran de visualisation
      2 x HP 7933 H — Unités disques magnétiques, 404 M Octets
      1 x HP 7971 — Dérouleur bandes magnétiques
      1 x HP — Lecteur - perforatrice de cartes
      1 x HP — Dispositifs pour enregistrement sur disquettes
      1 x HP B600 — Imprimante, 600 lignes/minute

   3. MPE 4
   4. FORTRAN, COBOL, BASIC
   5. IMAGE 3000, QUERY 3000

2. OFFICE CONGOLAIS D'INFORMATIQUE

   1. 1 x IBM 370/125 MODELE 2 — 128 K Octets
   2. 4 x IBM 3340 — Unités disques magnétiques, 70 M Octets
      3 x IBM 3420 — Dérouleurs bandes magnétiques
      1 x IBM 250 — Perforatrice de cartes
      1 x IBM 3402 — Imprimante
   3. DOS

*** DJIBOUTI ***

1. ARMEE NATIONALE
   1. 1 x CII-HB CPX 10[illegible] 1983

2. BANQUE POUR LE COMMERCE ET L'INDUSTRIE
   1. 2 x NCR 399 24 K Octets 1974 Propre

3. ELECTRICITE DE DJIBOUTI
   1. CII-HB MINI 6/43 512 K Octets 1983
   2. 1 x CII-HB CRU 9108 Lecteur de cartes
      2 x CII-HB DIU 9102 Lecteur à disquettes
      6 x CII-HB QUESTART Ecran clavier 24 x 80 caractères affichables
      2 x CII-HB KDU 7280 Poste de saisie double sur disquettes simples faces, 256 K Octets, 8 pouces
      3 x CII-HB MSU 9102 Unités disques magnétiques, 67 M Octets
      1 x CII-HB MINI 643 Mini ordinateur, 512 K Octets
      4 x CII-HB SEMATRANS 1200B Modems, 1200 Bauds
      2 x CII-HB PRU 9104 et 9106 Imprimantes, 600 lignes et 400 lignes/minute
      1 x CII-HB TWU 9106 Terminal, 120 caractères/seconde
      1 x CII-HB TTU 8127 Terminal, 120 caractères/seconde
   3. MOD 400
   4. COBOL AN (E)
   5. UFAS, DFC, DTF, EDIT
   6. Système et programmation (8), opérations de traitement (3), enregistrement des données (5)

4. AGENCES DIVERSES
   1. 1 x CII-HB 61/58 1974
      1 x CII-HB 6

*** ETHIOPIA / ETHIOPIE ***

1. AGENCY FOR THE ADMINISTRATION OF RENTED HOUSES

1. 1 x NCR 8250 — 128 K bytes — 1979 — Rented
3. IMDS
4. COBOL (E), BASIC (O)
6. Systems and programming (2), computer operations (2), data entry staff (6), off-line operations (6)

2. AGRICULTURAL AND INDUSTRIAL DEVELOPMENT BANK

1. 1 x BURROUGHS B - 80 — 8 K bytes — 1969

3. AGRICULTURAL MARKETING CORPORATION

1. 1 x BURROUGHS B - 80 — 128 K bytes — 1978 — Owned
2. 2 x BURROUGHS — Line printer, 256 lines/minute
   2 x BURROUGHS — Magnetic disk units, 18.5 M bytes
   1 x BURROUGHS — Key board terminal
3. MCP
4. COBOL (E), FORTRAN (N), PL/1 (N), ASSEMBLY (N), RPG (N)
5. CBMS II PAYROLL (E), CBMS II GENERAL LEDGER (E), CBMS II INV. CONTROL (E), CMS REPORTER IV (O)
6. Systems and programming (2), computer operations (3), data entry (1)

4. BUILDING CONSTRUCTION

1. 1 x NCR 8250 — 128 K bytes — Owned
   1 x NCR 499 — 16 K bytes — Owned
   1 x NCR 399 — 16 K bytes — Owned

5. CENTRAL STATISTICAL OFFICE

1. 1 x HP 3000 Series 44 — 1 M bytes — 1983 — Owned
2. 1 x HP 32440 B — Central processing unit, 105 n.s.
   2 x HP 7935 H — Magnetic disk unit, 1 MB/second transfer rate
   2 x HP 7970 E — Magnetic tape unit, 72,000 characters/second
   2 x HP BDS — Line printer, 300 l.p.m.
   12 x HP 2622 A — Key-to-disc systems
3. MPE
4. FORTRAN (O), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (E)
5. VIEW 3000, QUERY 3000, IMAGE 3000; SPSS, COBOL-CONCOR, COCENTS, UNEDIT (RPG), X-TALLY (RPG), CO-XTALLY (RPG)
6. Systems and programming (7), computer operations (2), data entry (16)

*** ETHIOPIA / ETHIOPIE ***

6. ETHIOPIAN AIR FORCE

1.	1 x IBM SYS 3/10	16 K bytes	Rented

7. ETHIOPIAN AIRLINES

1.	1 x HP 3000/40	1 M bytes	1983	Owned
	1 x HP 3000/44	750 K bytes	1983	Owned
2.	22 x HP 2622A	Terminals, 9600 bauds		
	2 x HP 7933	Magnetic disk units, 400 M bytes each, 900 K bytes/second		
	1 x HP x 7911	Magnetic disk unit, 64 M bytes		
	3 x HP-M 100/DP	Line printers, 1000 lines/minute		
	1 x HP M 300	Line printer, 300 lines/minute		
	3 x HP	Magnetic tape unit, 40 K bytes/second, 1600 bpi		

3. MPE IV
4. COBOL (E)
5. VIEW/3000 (E), IMAGE/3000 (O), KSAM/3000 (E), TDP/3000 (O), EDIT/3000 (E)
6. Systems and programming (9), computer operations staff (3), data entry (12)

8. ETHIOPIAN COFFEE MARKETING CORPORATION

1.	1 x NCR 8250	128 K bytes
2.	3 x NCR 7500	Key-board-terminals
	1 x NCR 7500	Line printer, 300 lines/minute
	1 x NCR	Video display terminal
	NCR	Magnetic disk units, per unit 10 M Bytes x 2, per pack 5 M bytes x 4
	NCR 282	Magnetic tape units
	NCR	Cassette reader, 300 K bytes

3. IMOS III
4. COBOL (E)
6. Systems and programming (1), off-line operations (3)

9. ETHIOPIAN DOMESTIC DISTRIBUTION CORPORATION

1.	1 x NCR 8250	64 K bytes	Leasing
2.	1 x NCR 656	Fixed and removeable disk drive, 10 K bytes	
	1 x NCR 349	Line printer, 300 lines/minute, 132 print-position	
	1 x NCR 796	Video display terminal	
	1 x NCR 7621	Single cassette transport/station	
	1 x NCR 6080	Processor with 64 K bytes memory	
	1 x NCR 7200	Encoding machine, 256 characters maximum	

3. IMOS III
4. COBOL (E)
6. Systems and programming (2), computer operations (1), data entry (3)

*** ETHIOPIA / ETHIOPIE ***

10. ETHIOPIAN ELECTRIC LIGHT AND POWER AUTHORITY

1.	1 x NCR 8455	1000 K bytes	1982
2.	1 x NCR 6831	Card reader, 600 cards/minute	
	2 x NCR 635-0109	Magnetic tape units, 9 characters, 80 K bytes/second	
	3 x NCR 658-201	Magnetic disk units, 200 M bytes, 806 K bytes/second	
	2 x NCR 6420	Line printers, 900 lines/minute, 132 characters/line	
	13 x NCR 7920	Key-board terminals, 24 lines, 1920 characters/screen	

3. VRX
4. FORTRAN (O), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (E), NEAT/3 (N)
5. CAM*(E), TRANPRO (O), TOTAL (O), SORT/MERGE (E), OLDP (E), VRX SORT MERGE (E), LINK EDITOR (E), VRX SYSTEM DEBUS (O), MCS (E), NDL (E), IDL (E)
6. Systems and programming (10), computer operations (4), data entry (16), off-line operations (17).

11. ETHIOPIAN TELECOMMUNICATIONS AUTHORITY

1.	1 x IBM 5410 - A 15	24 K bytes	1972
	1 x IBM - B 11	48 K bytes	1982
2.	1 x IBM 3741	Diskette reader, 1640 records	
	1 x IBM 5203-3	Line printer, 300 lines/minute	
	2 x IBM 5444	Magnetic disk units, 199 K bytes	
	2 x IBM 3410-2	Magnetic tape units, 40 K bytes	
	2 x IBM 1502-2	Paper tape reader, 120 characters/second	
	2 x IBM 5251-2	Video display terminals, 960 characters	
	2 x IBM 500	Modems, 1200 bits/second	
	2 x IBM 5256-3	Printer, 120 characters/second	

3. SCP
4. COBOL (O), RPD (E)
6. Systems and programming (2), computer operations (6), data entry (24)

12. FRANCO-ETHIOPIAN RAILWAYS

1.	1 x NCR 8200	64 K bytes	1975	Rented

13. INTERNATIONAL LIVESTOCK CENTRE FOR AFRICA (ILCA)

1.	1 x HP 3000 Series III	1 M bytes	1980	Owned
2.	1 x HP 7970 E	Magnetic tape unit, 1600 bpi, 45 characters/second		
	2 x BDS	Line printers, 300 lines/minute, 136 columns, 64 characters		
	1 x HP 30106 A	Card reader, 300 cards/minute		
	1 x HP 9872 B	Graph plotter, auto-tracing table		
	1 x HP 7925 M/	Magnetic disk unit, 120 M bytes each		

*** ETHIOPIA / ETHIOPIE ***

11 x HP	Video display units		
4 x HP 125	Micro computers		
4 x HP 82901 M	Magnetic disk floppy units, 256 K bytes/diskette		
2 x HP 2601 A	Line printers		
2 x HP 82905 B	Line printers		
1 x HP 9135 A	Magnetic disk unit, Fixed 4.2 M Bytes and floppy 256 K bytes		

3. MPE IV
4. FORTRAN IV (E), COBOL 2 (O), PL/1 (N), ASSEMBLY (N), RPG (N), BASIC (N)
5. SPSS 9.2 (E), BMDP (O), HARVE.'S LEAST SQUARES (E), MINIS (E), GLIM (O), IMAGE 3000 (N), VIEW 3000 (N), TDP (O)
6. Systems and programming (5), computer operations (2), data entry staff (3)

14. MUNICIPALITY OF ADDIS ABABA

1. 1 x IBM SYS 3/10	16 K bytes	1977	Rented

15. PHARMACEUTICALS AND MEDICAL SUPPLIES CORPORATION

1. 1 x NCR 8250	128 K bytes	1980	Rented

16. RELIEF AND REHABILITATION COMMISSION

1. 1 x NCR 607	64 K bytes		Owned
2. 2 x NCR 7200	Key-to-cassette machines, 4 K bytes		
1 x NCR 796-101	Key-board terminals, 1960 characters		
1 x NCR 956-1	Magnetic disk unit, 4.9 M bytes		
1	Magnetic cassette reader, 750 characters/second		
1 x NCR 0202	Matrix printer, 750 characters/second		

3. IMOS II
4. COBOL 74 (E)
6. Systems and programming (1), computer operations (2), data entry (4)

17. UNITED NATIONS ECONOMIC COMMISSION FOR AFRICA (UN-ECA)

1. 1 x HP 3000 Series III	2 M bytes	1980	Owned
2. 16 x HP 2621 A	Video display terminals, 2400 bauds		
22 x HP 2622 A	Video display terminals, 2400 bauds		
1 x HP 2647 A	Graphic terminal, 300 + 09600 bauds		
6 x HP 2640 B	2400 - baud terminal printer		
1 x HP 2621 P			
1 x HP 7933	Magnetic disk unit, 400 M bytes		
2 x HP 7925 B	Magnetic disk units, 120 M bytes		

*** ETHIOPIA / ETHIOPIE ***

2 x HP 7970 E	Magnetic tape unit, 1600 bpi, 45 inches/second
1 x HP 2631 G	Line printer, graphic option, 180 characters/second
7 x HP 2635 B	Terminal/printer, 180 characters/second
1 x HP 98725	Graph plotter, 0.4 to 14.2 inches/second
2 x HP D-50 POINTER	Line printer, auto sheet feeder, 300 bauds
1 x HP 7260 A	Optical mark reader, 300 cards/minute
2 x BDS 300	Line printer, 300 lines/minute

3. MPE IV
4. FORTRAN (E), COBOL (E), RIG (E)
5. SPSS (E), CONCOR (O), IMAGE 3000 (E), VIEW 3000 (E), QUERY 3000 (E) EDIT (E) INSIGHT (E)
6. Systems and programming staff (4), computer operations (7), off-line operations (11)

*** GABON ***

1. BANQUE INTERNATIONALE POUR LE COMMERCE ET L'INDUSTRIE AU GABON
   1. 1 x CII-HB 6250 — 156 K Octets — 1979 — Loué

2. COMPAGNIE MINIERE DE L'OGOOUE
   1. 1 x IBM 370/125-2 — 192 K Octets — 1978 — Propre

3. COMPAGNIE COMMERCIALE DU GABON
   1. 1 x IBM 32/520 — 32 K Octets — 1978 — Loué

4. COMPAGNIE DES MINES D'URANIUM DE FRANCEVILLE
   1. 1 x IBM 370/115 — 192 K Octets — 1979 — Propre
      1 x IBM 4331-11 — 1 M Octets — 1983 — Loué
   2. 3 x IBM 3742 Unités double postes pour enregistrement sur disquettes
      1 x IBM 3741 Unité programmable avec imprimante
      1 x IBM 3540 Lecteur disquettes, chargement 20 disquettes
      1 x IBM 3340 Unités disques magnétiques, 70 M Octets par module, 4 modules
      1 x IBM 3411 Dérouleurs bandes magnétiques, 40 K Octets, simple densité
      1 x IBM 3203 Imprimante, 1200 lignes/minute
   3. DOS/VS
      DOS/VSE
      DOS
   4. FORTRAN, COBOL AND/74, ASSEMBLEUR, RPG
   5. ATOS (E)
   6. Système et programmation (5) Opérations de traitement (2), Enregistrement des données (5), Opérations autonomes (1)

5. GABON INFORMATIQUE
   1. 1 x CII-HB DPS 7/45 — 2048 K Octets — 1982 — Loué
      1 x CII-HB 64 DPS/2 — 1536 K Octets — 1981 — Propre
   2. 3 x IBM 120 Perforatrice-vérifactrice de cartes
      1 x CII-HB Lecteur de cartes, 300 caractères/minute
      3 x CII-HB Lecteur disquettes
      8 x IBM 3742 Dispositifs pour enregistrement sur disquettes
      3 x MTS 7500 Dispositifs pour enregistrement sur disquettes
     17 x MSU 455 Unités disques magnétiques, 200 M Octets

*** GABON ***

1. 1 x IBM 23 Micro-ordinateur
   1 x QUESTAR Micro-ordinateur
   14 x CII-HB Modems
   4 x CII-HB Imprimantes, 3 à 800 lignes/minute et 1 à 600 lignes/minute
   4 x CII-HB Unités bandes magnétiques, 2 à 120 K Octets et 60 K Octets
3. GCOS 64
4. COBOL (E), RPG (E), BASIC (E)
5. TDS (E)
6. Système et programmation (9), enregistrement des données (14), opérations autonomes (2)

6. SOCIETE D'ENERGIE ET D'EAU DU GABON

1. 1 x IBM 370/115 192 K Octets 1974
   1 x IBM 4331-J11 1024 K Octets 1983
   1 x IBM 5280 64 K Octets 1982
2. 1 x IBM 3203 Imprimante, 1200 lignes/minute
   4 x IBM 3340 Unités disques magnétiques, 70 M Octets, 800 K Octets/seconde
   2 x IBM 3540 Lecteurs disquettes, 1600 BPI, 80 K Octets/seconde
   3 x IBM 3278 Terminaux à écran de visualisation, 1920 caractères
   4 x IBM 3742 Postes doubles à disquettes
   2 x IBM 3274 Terminaux machine à écrire, 80 caractères/seconde
   3 x IBM 3278
3. DOS/VS
   DOS/VSE
   DOS
4. FORTRAN (O), COBOL (E), ASSEMBLEUR (O), RPG II (E), GAP E/D (E)

7. SOCIETE SUCRIERE DU HAUT OGOOUE

1. 1 x IBM 5340 128 K Octets
2. 7 x IBM 5251 Dispositifs pour enregistrement sur disquettes
   1 x IBM 5211 Imprimante, 300 lignes/minute
   1 x IBM 5256 Imprimante, 60 lignes/minute
3. S 34
4. RPG (E)
5. Système et programmation (1), enregistrement des données (2)

*** GAMBIA / GAMBIE ***

1. CENTRAL STATISTICAL OFFICE

1. 1 x WANG VS-80 — 256 K bytes — 1982 — Owned
2. 6 x WANG 2246S — Work station, direct data entry, serial 16 K RAM
   2 x WANG 2280 V-3 — Magnetic disk unit, 75 M bytes fixed and 15 M bytes removable
   1 x WANG 5573 — Printer, 250 lines/minute
3. VS/DOS
4. FORTRAN (O), COBOL (E), ASSEMBLY 2200 VS (O), RPG (O), BASIC (O)
5. COBOL CONCOR, CENTS 4
6. Systems and programming staff (2), data entry staff (2)

*** GHANA ***

1. ACCOUNTANT GENERAL

   1. 1 x WANG 2200 LVP 1983

2. AGRIC

   1. 1 x WANG 2200MVP 1981

3. AMERICAN CENTRE

   1. 1 x WANG OIS 130

4. ASHANTI GOLDFIELD CORPORATION

   1. 1 x ICL 1901 16 K bytes

5. B.H.C.

   1. 1 x IBM 370/125 256 K bytes
   2. 9 x IBM 3741 Key-to-diskette system, 4 K
   3. DOS/VS
   4. ACL (E)
   6 Systems and programming staff (1), data entry staff (12)

6. CENTRAL BUREAU OF STATISTICS

   1. 1 x WANG VS-80 5/2 K bytes 1982 Owned
   2. WANG 22V05-2
      WANG 2265V-2B Magnetic disk unit, 288 M bytes
      WANG 5574 Line printer, 600 lines/minute
      WANG 2246 S Video display unit
      WANG 658 IWC Line printer

   3. DOS
   4. FORTRAN 66, PL/1, ASSEMBLY, RPG, BASIC
   5. WORD PROCESSING
   6. Systems and programming staff (6), computer operations staff (10), data entry staff (40)
   7. CENTRAL REVENUE DEPARTMENT

      1. 1 x ICL 1901 16 K bytes

   8. COMPUTER SERVICES LTD.

      1. 1 x WANG VS-80 256 K bytes 1983 Rented

   9. DEPARTMENT OF HYDROMET

      1. 1 x DIGITAL 48 K bytes

   10. GHANA AIRWAYS CORPORATION

      1. 1 x WANG 2200 LVP 1983

*** GHANA ***

11. GHANA ARMED FORCES

1. 1 x WANG VS-80 1983

12. GHANA COCOA MARKETING BOARD

1. 1 x NCR 8250 128 K bytes Owned
2. 4 x NCR 796-101 Key board terminals, 12 inch screen, 2480 characters lines

1 x NCR 6420 Band printer, 300 lines/minute

3. IMOS II
4. COBOL (E), FORTRAN (N), PL/1 (N), ASSEMBLY (N), RPG (N)
6. Systems and programming staff (4), computer operations staff (2), data entry staff (3), off-line operations staff (1)

13. GHANA COMMERCIAL BANK

1. 1 x NCR 8250 128 K bytes 1978 Owned
2. 5 x NCR 796-101 Video display unit/terminal
   1 Line printer
3. 2:18:14(IMOS)
4. COBOL 74 (E), FORTRAN (N), PL/1 (N), ASSEMBLY (N), RPG (N)
6. Systems and programming staff (5), data entry staff (3)

14. GHANA INSURANCE CORPORATION

1. 1 x WANG 2200 LVP 1983

15. GHANA MEDICAL SCHOOL

1. 1 x WANG MVP 64 K bytes

16. GHANA OIL COMPANY

1. 1 x WANG MVP 64 K bytes

17. GHANA RAILWAYS CORPORATION

1. 1 x 1901 A 16 K bytes 1977 Rented
2. 6 x ICL Card punch machine
   6 x ICL Card punch verifier
   1 x ICL Card reader
   4 x ICL Line printer, 600 lines/minute
   4 x ICL Magnetic tape units
   2 x ICL Magnetic disk units, two exchangable discs
3. GEORGE
4. FORTRAN XFAM (O), COBOL XEKB (E)
5. XRLP (O), XSMC (O), XQMY (E), XSDC (E)
6. Systems and programming staff (4), computer operations staff (3), data entry staff (13)

*** GHANA ***

18. GHANA WATER AND SEWERAGE CORPORATION

1. 1 x WANG 2200 LVP 1983

19. IBM WORLD TRADE CORPORATION

1. 1 x IBM 370/125

20. MINISTRY OF AGRICULTURE (AGRICULTURAL CENSUS DIVISION)

1. 1 x WANG MVP 64 K bytes

21. MINISTRY OF FOREIGN AFFAIRS

1. 1 x WANG 2200 LP 1983

22. MOBIL OIL COMPANY

1. 1 x IBM 370/125 256 K bytes 1981 Owned
2. 1 x IBM 129 Card punch verifier
3. DOS/VS
4. RPG II (E), FORTRAN (N), COBOL (N), PL/1 (N), ASSEMBLY (N)
6. Systems and programming staff (4), computer operations staff (1), data entry staff (1), off-line operations staff (1)

23. NATIONAL COMMISSION FOR DEMOCRACY

1. 1 x WANG VS-80 1983 Owned
2. 1 x WANG 2246S Serial work station
   1 x WANG 2266C Combined work station
   1 x WANG 5574 Band printer
   1 x WANG 2209V-2 Magnetic disk unit, 288 M bytes
   1 x WANG 2236-DE Key-to-diskette system
   1 x WANG 2266-C3 Diskette reader
4. FORTRAN IV (E), COBOL ANS (ES),PL/1 (E), ASSEMBLER (E), RPG II (E) BASIC 3 (E)
5. DOVTOVS (E), GENCTL (E), DISPRINT (E), COMPILE (E)
6. Systems and programming staff (3), computer operations staff (3), data entry staff (36)

24. REGIONAL INSTITUTE FOR POPULATION STUDIES (RIPS)

1. 1 x WANG 2200 MVP 1982
3. BASIC-2
4. BASIC-2

25. SOCIAL SECURITY AND NATIONAL INSURANCE TRUST

1. 1 x WANG 2200 LVP 1982 Rented

*** GHANA ***

26. STATE CONSTRUCTION CORPORATION

1.	1 x ICL 1901 T	72 K bytes	1975	Rented

27. TEXACO GHANA LTD.

1.	1 x WANG VS-80	256 K bytes	1983	Rented
2.	1 x WANG 5574	Line printer, 600 lines/minute		
	2 x WANG 2280 V-3	Magnetic disk units, 90 M bytes		
	1 x WANG 2270 V-0	Diskette reader, 315 K bytes		
	1 x WANG 2209 V-2	Magnetic tape unit, 9-track-DD, 1600/800 bpi		
	6 x WANG 2246-S	Video display unit/terminal, 25 x 80 - character screen		
3.	DOS			
4.	COBOL (O), ASSEMBLY (O), RPG II (E), BASIC (N)			
5.	DATA ENTRY (E), SORT (E), I/O UTILITY (E), GAMES (O)			
6.	Systems and programming staff (7), computer operations staff (1), data entry staff (2), off-line operations staff (1)			

28. UNIVERSITY OF CAPE COAST

1.	1 x ICL 1901 A	16 K bytes	1974	Rented
2.	1 x ICL 2105/1	Decoder 9 device, 300 cards/minute		
	1 x ICL 2404	Line printer, 64 characters/second		
	4 x ICL 1971 MTS	7 - track transfer rate, 7500 and 20,800 characters/second		
	2 x ICL 2820	4096 characters per track		
	1 x ICL 1934	Plotter		
	2 x IBM 129	Card punch verifier		
4.	FORTRAN, COBOL			
6.	Computer operations staff (3), data entry staff (3)			

29. UNIVERSITY OF GHANA (LEGON)

1.	1 x ICL 1130	32 K bytes		

30. UNIVERSITY OF GHANA/SCIENCE AND TECHNOLOGY

1.	1 x IBM 370/115	96 K bytes		

31. VOLTA ALUMINIUM COMPANY

1.	1 x IBM 3125	196 K bytes	1979	Owned
2.	7 x IBM 129	Card punch verifier		
	1 x IBM 029	Card punch machine		
	1 x IBM 083			
	2 x IBM 3410/11-003	Magnetic tape units, dual density		
	1 x IBM 3525/P01	Card reader/punch, 60 cards/minute		
	6 x IBM 3333/30-001	Magnetic disk units, 100M bytes, 2 drives/ 4 spindles, 806 K bytes/second		
	1 x IBM 3504/A01	Card reader, 1000 cards/minute		

*** GHANA ***

	1	Video display unit, 16 lines of data, 56 characters/line
	1 x IBM 1403/N01	Line printer, 1900 lines/minute
	1 x IBM 1416/HN	Train printer, interchangable cartridge

3. DOS/VS
4. ASSEMBLY (O), RPG II (E), SORT SM2 (E)
6. Systems and programming staff (3), computer operations staff (3), data entry staff (10)

32. VOLTA RIVER AUTHORITY

1. 1 x IBM 3/10 — 48 K bytes

33. WEST AFRICAN EXAMINATION COUNCIL

1. 1 x IBM 370/125 — 128 K bytes

*** GUINEE ***

1. CENTRE NATIONAL D'INFORMATIQUE ET DE GESTION

    1. 2 x WANG VS - 80

    2. WANG VIRTUAL O/S

    3. FORTRAN, COBOL, RPG II, BASIC

*** KENYA ***

1. AGRICULTURAL FINANCE CORPORATION

1. 1 x IBM 5415 — 192 K bytes — 1979 — Rented
2. 2 x IBM 3742 — Dual data station
4. COBOL (O), RPG (O)
6. Systems and programming staff (6), computer operations staff (4), data entry staff (7)

2. BRITISH AMERICAN TOBACCO LTD.

1. 1 x ICL

3. CALTEX OIL (KENYA) LTD.

1. 1 x IBM 3 MOD 15 — 192 K bytes — 1978 — Rented
2. IBM 3742 — Diskette reader
   IBM 3741 — Direct data entry
   IBM 3277 — Key-board terminal
   IBM 3340 — Magnetic disk unit
   WANG — Modem
   IBM 34KI/3411 — Magnetic tape unit
   IBM 3277 — Video display unit
   IBM 1403 — Line printer
3. DSM
4. RPG (O)
5. TOTAL (E), LEXICON (O)
6. Systems and programming staff (8). computer operations staff (3), data entry staff (5)

4. CENTRAL BUREAU OF STATISTICS

1. 1 x IBM 370-138 — 1024 K bytes — 1980 — Owned
2. 1 x IBM 2501 — Card reader, 600 cards/minute
   2 x IBM 3540 — Diskette reader, 3600 records/minute
   IBM 3741 — Key-to-diskette system
   IBM 3340 — Magnetic disk unit
   3 x NEC DARAX — Modem
   2 x IBM 1403/N1 — Line printer
   IBM 3420/3 — Magnetic tape unit, 1600 bpi, 120 K bytes/second
   IBM 3277/1 — Video display unit, 480 characters/screen
   1 — Key-board terminal
3. DOS/VSE
4. FORTRAN (O), COBOL (E), ASSEMBLY (O)
5. SPSS (O), CENTS-AID (O), COCENUS (E), FPS (O), CONCOR, DL/1
6. Systems and programming staff (7)

*** KENYA ***

5. DATA CENTRE LTD.

1. 1 x ICL ME 49

6. DIRECTORATE OF CIVIL AVIATION

1.	1 x PHILIPS DS 714 MK III	64 K bytes	1979	Owned
2.	1 x TELETYPE ASR 35	Key-board terminal, 110 bauds		
	1 x DDC 9111	Magnetic disk unit, 38.4 M bytes		
	1 x PHILIPS x 1415	Line printer, 200 lines/minute		
	1 x AMPEX TM 100	Magnetic tape unit, 37.5 inches/second		
	1 x GNT MODEL 26	Paper tape reader, 500 characters/second		
	1 x HP 2649	Video terminal unit, 600 bauds		
	1 x GNT MODEL 34	Paper tape puncher, 45 characters/second		
	1 x PHILIPS DCR 3	Digital cassette recorder, 7 1/2 inches second		

3. AEROPP
4. ASSEMBLY (O)
5. AEROFV VERSION 8 (E)

7. EAST AFRICAN INDUSTRIES

1.	1 x IBM	96 K bytes	1981	Rented
2.	2 x IBM 5251	Video display units, 24 lines		
	2 x IBM 5252	Video display units, 12 lines		

3. DOS
4. COBOL (O), RPG (E), PL/1 (N), FORTRAN (N), ASSEMBLY (N)
6. Systems and programming staff (4), computer operations staff (2), Data entry staff (4), off-line operations staff (1)

8. EAST AFRICAN POWER AND LIGHTING CO. LTD.

1.	1 x ICL 2904/50	288 K bytes	1980	Rented

9. GAILEY AND ROBERTS, LTD.

1.	1 x IBM 3/10	32 K bytes	1973	Rented

10. GOVERNMENT COMPUTER CENTRE

1. 1 x IBM

11. KENYA BREWERIES

1. 1 x ICL

12. KENYA COMMERCIAL BANK

1.	2 x ICL SYSTEM 10	60 K bytes	1980	Owned
	1 x ICL ME 29/45	764 K bytes	1982	Owned
	1 x ICL 2904	192 K bytes	1977	Owned

*** KENYA ***

2. 4 x ICL 2510/2511 Magnetic tape units, 80,000 characters/second
   2 x ICL Train printer, 1500 lines/minute
   6 x ICL Magnetic disk units 200,000 characters/second
   2 x ICL KEY EDIT 50 KT 0620 Key-to-tape machine

3. DMF-II

   TME-40
   DME AND JCL

4. COBOL (E), ASSEMBLY II (E), PLAN (E)
5. QPG (O), PROSPER (O), IDMS, FIND II
6. Systems and programming staff (14), computer operations staff (27), data entry staff (85), off-line operations staff (3)

13. KENYA FARMER'S ASSOCIATION

1. 1 x ICL 1900 288 K bytes 1978 Rented

14. KENYA PLANTERS' CO-OPERATION UNION

1. 1 x WANG

15. KENYA PORT AUTHORITY

1. 1 x ICL 1900

16. KENYA POSTS AND TELECOMMUNICATION CORPORATION LTD.

1. 1 x ICL 1902

17. KENYA RAILWAYS

1. 1 x ICL 2904 96 K bytes 1979 Rented
2. 1 x ICL 2108/2 Card reader, 300 cards/minute
   1 x ICL 2430 Line printer, 1500 lines/minute
   1 x ICL 2410 Line printer, 600 lines/minute
   1 x ICL Matrix printer, 165 characters/second
   1 x ICL 2510 Magnetic tape unit
   ICL KE-50 Ten Key stations
   1 x ICL 2815 Magnetic disk unit
   1 x ICL 7502 Paper tape puncher, 75 characters/second
   1 x ICL Typewriter terminal
   1 x ICL Video display terminal

3. GEOl
4. FORTRAN (O), COBOL (E), PLAN (O), PL/1 (N), ASSEMBLY (N)
5. TABN (E)
6. Systems and programming staff (22), computer operations staff (17), data entry staff (30), off-line operations staff (3)

*** KENYA ***

18. KENYA SHELL

1. 1 x IBM 3/10

19. KENYA TEA DEVELOPMENT AUTHORITY

1.	IBM SYSTEM 3 MODEL 150	128 K bytes	1979	Owned
2.	1 x IBM 3741	Diskette reader, 128 characters		
	4 x IBM 3742	Key-to-diskette system, 128 characters		
	2 x IBM 3340	Magnetic disk units, models A_1 and B_1, 100 M bytes		
	1 x IBM 1403	Line printer, 600 lines/minute		
	1 x IBM 3277	Video disk unit, 78-key console		
3.	SCP			
4.	RPG II (E)			
6.	Systems and programming staff (8)			

20. MARSHALLS (E/A) LTD.

1.	1 x ICL ME 29	500 K bytes	1981	Rented

21. KENYA NATIONAL EXAMINATION COUNCIL

1. 1 x ICL

22. METEOROLOGICAL DEPARTMENT

1.	1 x MITRA 525	512 K bytes	Owned

23. MINISTRY OF FINANCE

1. 1 x IBM 370/145

24. MINISTRY OF ECONOMIC PLANNING AND DEVELOPMENT

1. 1 x IBM 370/135

25. NAIROBI CITY COUNCIL

1. 1 x ICL 1901

26. SECURICOR KENYA LTD.

1. 1 x ICL

27. UNIVERSITY OF NAIROBI

1. 1 x ICL 1904

*** LESOTHO ***

1. BUREAU OF STATISTICS

1.	1 x ICL 2903/35	144 K bytes	1980	Owned
2.	1 x ICL 2108	Card reader, 300 cards/minute		
	7 x ICL 2251	Direct data entry		
	1 x ICL 2411	Line printer, 300 lines/minute		
	1 x ICL	Video display unit		
	2 x ICL 2815	Magnetic disk units, 60 M bytes		
	1 x ICL 2822	Magnetic disk units, 2 x 5 M bytes		

3. EXEC 1
4. XEKD/6A (E), FORTRAN (O)
5. COCENTS 1.3 (E), UNEDIT (O), XTALLY (O)
6. Systems and programming staff (4), computer operations staff (1), data entry staff (9)

*** LIBERIA ***

1. BONG MINING COMPANY

1. 1 x IBM 370/138 — 1 M bytes — 1982 — Owned
   1 x PDP 11/34 — 96 K bytes — 1976 — Owned
   1 x PDP 11/34 — 128 K bytes — 1976 — Owned
2. 1 x IBM 1442 — Card reader/punch
   2 x IBM 129 — Card punch machine
   1 x IBM 3540 — Diskette reader
   6 x IBM 3740 — Key-to-diskette system
   4 x IBM 3340 — Magnetic disk units, total of 560 M bytes
   1 x DEC CR11 — Card reader
   1 x CALCOMP — Graph plotter
   20 x IBM 3270 — Video display units
   4 x DEC RK05 — Magnetic disk units
   5 x IBM 3410 — Magnetic tape units
   2 x IBM 1403 — Line printers
   1 x PC 11 — Paper tape reader
   1 x LA 100 — Line printer
3. DOS/VS
   RT 11
   RSX-11M
4. FORTRAN (E), PL/1 5.0 (E), ASSEMBLY (O), RPG II (E)
5. DL/I (E), SELCOPY (E)
6. Systems and programming staff (7), computer operations staff (5), data entry staff (5), off-line operations staff (1)

2. COMPUTER SERVICES BUREAU

1. 1 x IBM 53/10

2. F + F ELECTRONICS, INC.

1. 1 x WANG WP-5III — 1980
   1 x WANG VS-80 — 1980
   1 x WANG MVP — 1979
   1 x WANG T — 1977
3. WORD PROCESSOR

   WANG VIRTUAL O/S
   WANG INTERACTIVE PATITIONABLE
   WANG INTERACTIVE SINGLE USER
4. WORD PROCESSOR' RPG II, BASIC

*** MADAGASCAR ***

1. CAISSE NATIONALE DE PREVOYANCE SOCIALE
   1. 1 x CII-HB 118 — 32 K Octets

2. ETABLISSEMENT D'ENSEIGNEMENT SUPERIEUR DES SCIENCES, UNIVERSITE DE MADAGASCAR
   1. 1 x IBM 1130 — 8 K Octets — 1969

3. INSTITUT NATIONAL DE LA STATISTIQUE ET DE LA RECHERCHE ECONOMIQUE
   1. 1 x IBM 370

4. MINISTERE DES TRAVAUX PUBLICS
   1. 1 x CII-HB Mini 6-43E — 320 K Octets — 1983 — Propre

5. REGIE NATIONALE DES CHEMINS DE FER
   1. 1 x IBM 360 - 30 — 64 K Octets — 1968 — Loué
   2. 6 x IBM 029 Perforatrice de cartes, 13000 caractères/heure
      5 x IBM 059 Perforatrice-vérficatrice de cartes, 400 cartes/minute
      3 x IBM 2314 Unités disques magnétiques, 29000 K Octets
      1 x IBM 1403 Imprimante, 600 lignes/minute
      2 x IBM 2400 Unités disques magnétiques, 800 bpi
      1 x IBM 1052 Terminal machine à écrire, 72 caractères/seconde
      2 x IBM 557 Interpreteuse 60 caractères/seconde
   3. DOS
   4. COBOL ANS (E)
   5. Système et programmation (9), opérations de traitement (9), entrée des données (14)

*** MALI ***

1. BANQUE DE DEVELOPPEMENT DU MALI
   1. 1 x CII-HB 62/25 60 K Octets
2. BANQUE INTERNATIONALE POUR L'AFRIQUE OCCIDENTALE (BIAO)
   1. 1 x CII-HB 62/65 60 K Octets
3. DIRECTION NATIONALE DE LA STATISTIQUE ET DE L'INFORMATIQUE
   1. 1 x CII-HB 62/60 164 K Octets 1978 Propre
   2. 1 x CII-HB CRU 001 Lecteur de cartes, 800 caractères/minute
      1 x CII-HB KDS 001 Dispositif pour enregistrement sur disquettes
      3 x CII-HB MSU 310 Unités disques magnétiques, 23 M Octets
      2 x CII-HB MTU 009 Dérouleurs bandes magnétiques, 1600 bpi
      1 x CII-HB PRU 001 Imprimante 800 lignes/minute
   3. GCOS 62
   4. FORTRAN IV (O), COBOL ANS (E), ASSEMBLEUR (O)
   5. COCENTS (O), CENTS -IV
   6. Système et programmation (13), opérations de traitement (6)
      Enregistrement des données (1[illegible]), opérations autonomes (6)
4. ENERGIE DU MALI
   1. 1 x CII-HB 61/58 16 K Octets
5. IPGP
   1. 1 x CII-HB 61/60 10 K Octets
6. SOMIEX
   1. 1 x CII-HB 61/40

*** MAURITIUS / MAURICE ***

1. ALBATROS INSURANCE CO. LTD.

1. QI LYTE	512 K bytes	1980	Owned

2. BANQUE NATIONALE DE PARIS

1. 1 x ICL 2903/25	32 K bytes		Owned

3. BANQUE NATIONALE POUR LE COMMERCE ET L'INDUSTRIE

1. 1 x ICL 2903

4. BEL AIR ST. FELIX S.E.

1. 1 x NCR 8150		1982	Rented

5. BLANCHE BIRGER CO. LTD.

1. 1 x NCR CENTURY 151

6. CATHEDRAL ST. LOUIS

1. 1 x ICL system 10/120	135 K bytes	1980	Rented

7. CENTRAL ELECTRICITY BOARD

1. 1 x ICL 2903	200 K bytes	1974	Rented

8. CENTRAL STATISTICAL OFFICE

1. 1 x LOGABAX L x 515	64 K bytes	1981	Owned
2. 1 x LOGABAX L x 515 2 integrated diskette readers in the same unit as CPU			
1 x LOGABAX 410 Video display terminal, 24 x lines x 80 characters			
1 x LOGABAX 103 Matrix printer, 100 Characters/second			

9. COMPUTER HOUSE LTD.

1. 1 QI LYTE

10. DE CHAGAL DU MEE AND CO.

1. 1 x WANG 2200

11. ROGER DE SPEVILLE LTD.

1. 1 x NCR

*** MAURITIUS/MAURICE ***

12. ELECTRONIC DATA PROCESSING CO. LTD.

1.	1 x NCR CENTURY 100	32 K bytes		
	1 x NCR CENTURY 151	64 K bytes		

13. FLAEG UNION SUGAR ESTATE LTD.

1. 1 x NCR

14. FLOREAL KNIT WEAR LTD.

1. 1 xICL system 10/120 — 30 K bytes

15. HAPPY WORLD LTD.

1.	1 x ICL 2903/25	24 K bytes	1979	Owned
2.	1 x ICL 071	Card punch machine, 80 columns		
	1 x ICL 2108	Card reader, 300 cards/minute		
	3 x ICL	Direct data entry, 8 lines x 32 characters		
	2 x ICL 2822/1	Magnetic disk units, 9.8 M characters, 416,000 characters/second		
	1 x ICL 2411	Line printer, 300 lines/minute		

3. EXEC
4. FORTRAN (N), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (N).
5. PROSPER (O)
6. Systems and programming (2), computer operations (1), data entry (3), off-line operations (1)

16. IRELAND BLYTH LTD.

1. 1 x IBM 34 — 32 K bytes

17. LEAL x CO. LTD.

1. 1 x NCR 8150

18. MAURITIUS COMPUTING SERVICES LTD.

1.	1 x ICL 2903/30	112 K bytes	1976	Rented
	1 x ICL 2903/30	96 K bytes	1978	Rented
	1 x TRIVECTOR-TRITON 3	64 K bytes	1980	Owned
	1 x TRIVECTOR-TRITON 3	64 K bytes	1981	Owned

2.	2 x ICL 2108	Card reader, 300 cards/minute, 80 columns
	4 x ICL 2251	Direct data entry, 256 characters display, 8 lines
	2 x ICL 2815	Magnetic disk units, 60 M bytes EDS, 416 K bytes
	1 x TRIVECTOR-SYS 80	Key to diskette micro diskette to tape converter and matrix printer

*** MAURITIUS / MAURICE ***

2 x ICL 2510 Magnetic tape units, 9 tracks, 40 K bytes, 800 bpi NRZI
2 x ICL 2511 Magnetic tape units, 80 K bytes, 1600 bpi PE
2 x ICL 2430 Train printer, 1500 lines/minute
2 x ICL 2255 Video display terminal, 20 lines display, 50 characters

3. EXECUTIVE 1

BOS

4. FORTRAN (O), COBOL (E), PL/1 (N), ASSEMBLY (O), RPG (O)

5. FIND 2 (E)

6. Systems and programming (17), computer operations (37), Data entry (21) off-line operations (11)

19. MAURITIUS HOTELS GROUP

1. 1 x QI

20. MAURITIUS MARINE AUTHORITY

1. 1 x ICL Sys. 10/120 30 K bytes

21. MAURITIUS SUGAR INDUSTRY RESEARCH INSTITUTE

1. 1 x ICL 2903/36 28 K words 1979 Owned
2. 1 x ICL 2108/02 Card reader, 300 cards/minute
4 x ICL 2251/01 Direct data entry, 254 characters displayed
1 x ICL 2822/01 Fixed exchangeable disc store, 416,000 characters/second, capacity 9.8×10^6 characters
1 x ICL 2411/03 Line printer, 3000 lines/minute
4. FORTRAN (E)
6. Systems and programming (6), computer operations (1), data entry (3)

22. MAURITIUS COMMERCIAL BANK LTD.

1. 2 x NCR V 8466 1000 K bytes 1982 Owned
2. 2 x ICL KEY EDIT 50 Key to disc systems
3. VRK
4. FORTRAN (N), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (N)
6. Systems and programming staff (8), computer operations (5), data entry staff (15)

23. MERCANTILE BANK LTD.

1. 1 x ICL 2903/00 28 K words 1976 Rented
2. 1 x ICL 2108/02 Card reader, 300 cards/minute
1 x ICL 2822/01 Magnetic disc unit, fixed and exchangeable, 10 M bytes
1 x ICL 2822/02 Magnetic disc unit, fixed and exchangeable, 10 M bytes
1 x ICL 2815/01 Exchangeable disc storage, 60 M bytes
1 x ICL 2411/03 Line printer, 300 lines/minute
3. EXECUTIVE 1

*** MAURITIUS / MAURICE ***

4. FORTRAN (N), COBOL (O), PL/1 (N), ASSEMBLY (N), RPG (E)
6. Systems and programming (2), Computer operations (4), Data entry (6)

24. MON LOISIR S.E.

1. 1 x NCR 8150

25. MINISTRY OF FINANCE

1.	1 x ICL 1902A	96 K bytes	1973	Owned
	1 x ICL ME 29	512 K bytes	1982	Owned
2.	2 x ICL KEY EDIT 50	Key to disc system		
	24 x ICL Key EDIT 50	Key-board terminals		
	4 x ICL EDS 8	Magnetic disk unit		
	1 x ICL 1933	Line printer, 1100 lines/minute		
	3 x ICL 2510/11	Magnetic tape units, 80 K bytes, 1600 bpi, 9-track		
	1 x ICL MDS/20/40	Magnetic disk unit, 120 + 60 M bytes		
	2 x ICL MDS 20	Magnetic disk unit, 60 M bytes		
	3 x ICL 2510/11	Magnetic tape units, 80 K bytes, 1600 bpi, 9-track		
	1 x ICL 1130	Line printer, 900 lines/minute		
	6 x ICL 3573	Video display units, 2000 characters-screen		

3. EXEC
TME
4. FORTRAN IV (O), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (N), PLAN (O)
5. FIND 2 (E), survey analysis (E)
6. Systems and programming (20), computer operations (15), data entry (38)
off-line operations (5)

26. PEPSI COLA

1. 1 x QI

27. PHARMACIE NOUVELLE LTD.

1 x NCR 8150

28. QUALITY BEVERAGES LTD.

1. 1 x QI LYTE

29. WEST EAST LTD.

1.	1 x NCR I - 8270	512 K bytes	1981	Rented
2.	2 x NCR 6530-0301	Magnetic disk unit, 81 M bytes, 1.2 M bytes/second		
	1 x NCR 7330-0101	Magnetic tape unit, 9 channels, 800 bpi, 10 K bytes second		
	1 x NCR 6420-0301	Band printer, 900 lines/minute		
	3 x NCR 7900-1101	Video display units, 24 x lines x 80 characters, 9600 bauds		

*** MAURITIUS / MAURICE ***

11 NCR	Video display units, 24 x lines x 80 characters, 9600 bauds
1 x NCR 7622-013	Integrated cassette handler, 800 bpi, 0.75 K byte/second
3 x NCR - 119	Magnetic tape units, 9 channels,800 bpi NRZ, 40 K bytes/second

3. IMOS-V and CENTURY 101 SIMULATOR
4. COBOL (E)
6. Systems and programming (7), computer operations (3), data entry (11) off-line operations (1)

*** MOROCCO/MAROC ***

1. DIRECTION DE LA STATISTIQUE

1. 1 x CII-HB 66/40 1024 K Octets 1979 Propre
2. 3 x CII-HB Dispositifs pour enregistrement sur disquettes
   2 x CII-HB Dispositifs pour enregistrement sur disques
3. GCOS
4. FORTRAN (O), COBOL (E), ASSEMBLEUR (O)
5. LEDA (E), SPSS (O), CONCOR-C (E), CENTS -IV (E), COCENTS (E), CENSUS (O), ARIEL
6. Système et programmation (32), opérations de traitement (11), enregistrement des données (82)

*** NIGERIA ***

1. BRISCOE, R/T.

   1. 1 x IBM 370/135 — 128 K bytes

2. DATA PROCESSING MAINTENANCE SERVICE

   1. 1 x IBM 370/145 — 516 K bytes

3. DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF IBADAN

   1. 1 x IBM 370/135 — 256 K bytes

4. DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF IFE

   1. 1 x IBM 370/135 — 512 K bytes

5. FEDERAL MINISTRY OF COMMUNICATIONS

   1. 1 x IBM 370/135 — 192 K bytes — 1973 — Owned

6. FEDERAL MINISTRY OF FINANCE

   1. 1 x IBM 370/135 — 128 K bytes

7. FEDERAL OFFICE OF STATISTICS

   1. 1 x DATA GENERAL ECLIPSE MV-8000 — 1981 — Owned
   2. 1 Card reader
      2 Magnetic disc units
      1 Line printer
      4 Magnetic tape units
      4 Video display unit 24-line screen
   3. AOS/VS
   4. FORTRAN IV (O), COBOL ICOS (E), PL/1 (O), ASSEMBLY (O), RPG (O) BASIC
   5. SPSS (P)
   6. Systems and programming staff (24), computer operations staff (10), data entry staff (45)

8. KANO STATE MINISTRY OF FINANCE

   1. 1 x IBM 3/10 — 32 K bytes

9. METEOROLIGAL DEPARTMENT

   1. 1 x IBM 3/10 - 5410/116 — 64 K bytes — 1974 — Owned
   2. 6 x IBM 129 — Card punch verifier
      1 x IBM 5203/002 — Card reader/punch
      1 x IBM 5471 — Key-board terminal
      1 x IBM 1442/006 — Line printer
      1 x IBM 029 — Card punch machine
   4. FORTRAN IV (O), RPG II (E), COBOL (N), PL/1 (N), ASSEMBLY (N)
   5. PAYROLL (E); DATA CONTROL (E), APPLICATION PROGRAM (O)
   6. Systems and programming staff (8), computer operations staff (6), data entry staff (14)

*** NIGERIA ***

10. MOBIL NIGERIA LTD.

1. 1 x IBM 370/115	96 K bytes		

11. NATIONAL ELECTRICITY POWER AUTHORITY

1. 1 x IBM 370/135	128 K bytes		Owned

12. NATIONAL POPULATION BUREAU

1. 1 x IBM 370/145	378 K bytes	1973	Owned

13. NATIONAL PROVIDENT FUND

1. 1 x IBM 370/35	196 K bytes	1980	Owned
1 x II 990/10 MOD 8	256 K bytes	1981	Owned
2. 2 x IBM 029	Card punch		
1 x IBM 3505	Card reader/punch		
1 x KENNEDY	Diskette to tape system		
10 x TAB 700	Key-to-diskette system		
1 x IBM 1403	Line printer, 1100 lines/minute		
1 x IBM 810	Line printer, 1100 lines/minute		
5 x 910 TI	Video display units		

3. DOS/RS
   DX 10
4. FORTRAN, COBOL
5. QUERY 990, EDIT, DBMS 990
6. Systems and programming staff (7), computer operations staff (5), data entry staff (2)

14. NIGERIA RAILWAY CORPORATION

1. 1 x IBM 360/25	32 K bytes	1970	Owned

15. SHELL CO. NIGERIA LTD.

1. 1 x IBM 370/145	516 K bytes		

16. UNITED BANK FOR AFRICA

1. 1 x IBM 370/145			

17. U.A.C. OF NIGERIA LTD.

1. 1 x IBM 370/135	512 K bytes	1973	Owned
1 x CMC REALITY	256 K bytes	1983	Owned
1 APPLE	48 K bytes	1979	Owned

*** NIGERIA ***

2. 4 x IBM 29 — Card punch machine
   1 x IBM 129 — Card punch verifier
   1 x IBM 3505 — Card reader/punch
   48 x CMC 5200 — Key-to-disc system
   6 x IBM 3340 — Magnetic disk units
   2 x IBM 3230 — Line printers
   3 x IBM 3420 — Magnetic tape units
   1 x IBM 3215 — Typewriter terminal

3. DOS/VS
   REALITY
   DOS

4. COBOL ANS (E) COBOL 2.3 (E), ASSEMBLY IBM REL 34.0 (O), BASIC (O) FORTRAN (N), PL/1 (N), RPG (N)
5. LOGOUT (E), LIBRARIAN (E), SYS MANAGER (E), DITTO (E), SELCOPY (E)
6. Systems and programming staff (32), computer operations staff (15), data entry staff (77), off-line operations (10)

18. UNITED BANK OF NIGERIA

    1. 1 x ICL 2903

19. UNIVERSITY OF LAGOS

    1. 1 x IBM 370/145 — 512 K bytes

20. UNITED TRADING COMPANY

    1. 1 x IBM 370/115 — 128 K bytes

21. WEST AFRICAN EXAMINATION COUNCIL

    1. 1 x IBM 370/135 — 256 K bytes

*** RWANDA ***

1. BANQUE COMMERCIALE DU RWANDA
   1. 4 x KIENZLE 2000 S — 64 K Octets

2. CAISE D'EPARGNE DU RWANDA
   1. 1 x NCR 8270 — 256 K Octets

3. DIRECTION GENERALE DE LA STATISTIQUE
   1. 1 x NCR 8250 — 128 K Octets — 1978 — Propre
   2. Terminal à écran de visualisation
      Imprimante 300 lignes/minute
      Unités de disques magnétiques
   3. IMOS III
   4. COBOL
   6. Système et programmation (2), enregistrement des données (7)

4. INSTITUT PEDAGOGIQUE NATIONAL
   1. 1 x HP 9825 — 6 K Octets

5. ELECTROGAZ
   1. 1 x NCR 8250 — 256 K Octets

6. LA RWANDAISE
   1. 6 x IBM S/23 — 176 K Octets

7. RWANDA MOTOR
   1. 1 x NCR 8270 — 256 K Octets

8. SOMECA
   1. 1 x NCR 8270 — 256 K Octets

*** RWANDA ***

9.	TRAI	
	1. 1 x NCR 8250	256 K Octets
10.	MINISTERE DU PLAN	
	1. 1 x APPLE II	64 K Octets
	1 x CROMENCO-SII	64 K Octets
	1 x SANCO 8150	64 K Octets
11.	SOCIETE DE CONSEIL ET DE SERVICE	
	1. 1 x NCR 8250	128 K Octets
12.	SOCIETE MINIERE DU RWANDA	
	1. 2 x KIENZLE 2000/3	64 K Octets
13.	UNIVERSITE NATIONALE DU RWANDA	
	1. 1 x CROMENCO CS III	64 K Octets
	1 x HP 9825	6 K Octets

*** SENEGAL ***

1. DIRECTION DU TRAITEMENT AUTOMATIQUE DE L'INFORMATION (DTAS)

   1. 1 x IBM 4331 - K02 — 4048 K Octets — 1980 — Loué
      1 x IBM 4341 - M02 — 8000 K Octets — 1982 — Loué

   2. 3 x IBM 029 — Perforatrices-vérificatrices de cartes
      2 x IBM 22501 — Lecteur-perforateur de cartes, 600 cartes/minute
      2 x IBM 3540 — Lecteurs disquettes
      34 x IBM 3742 — Dispositifs pour enregistrement sur disquettes
      7 x IBM 3375 — Unités disques magnétiques, 819 M Octets
      1 x IBM 3350 — Unités disques magnétiques, 619 M Octets
      5 x IBM 3203 — Imprimantes, 1200 lignes/minute
      1 x IBM 3289 — Imprimantes, 400 lignes/minute
      2 x IBM ERBDD 19/15 — Modems
      9 x IBM 3420-8 — Derouleurs bandes magnétiques, 6250 et 9600 bpi
      36 x IBM 3278 et 3279 — Terminaux à écran de visualisation
      2 x IBM 3287 — Imprimantes, 80 caractères/seconde

   3. OS/VSI
      MVS

   4. COBOL (E)

   5. LEDA (E), OSIRIS III (O), COBOL-CONCOR (O)

2. 44 AGENCES DIVERSES

   1. 10 x BURROUGHS
      10 x CII-HB
      20 x IBM
      5 x NCR
      28 x OLIVETTI
      2 x WANG

*** SEYCHELLES ***

1.	CSL	
	1. 1 x ICL System ten/120	1980
2.	SEC	
	1. 1 x ICL System ten/120	1981
3.	SEYCOM	
	1. 1 x ICL System ten/120	1981
4.	SPTC	
	1. 1 x ICL System ten/120	1980
5.	TREASURY	
	1. 1 x ICL System ten/120	1980
6.	WEL	
	1. 1 x ICL System ten/120	1980

*** SOMALIA / SOMALIE ***

1. CENTRAL STATISTICAL DEPARTMENT,
MINISTRY OF PLANNING

1. 1 x NCR 101 CENTURY SYSTEM — 32 K bytes — 1976
2. 3 x NCR 736 MDS — Key-to-tape machine
   1 x NCR 682-100 — Card punch machine
3. B1
4. FORTRAN (E), COBOL (E), ASSEMBLY (O), RPG (N)
6. Systems and programming staff (6), computer operations staff (2), Data entry staff (4), off-line operations staff (7)

*** SWAZILAND / SOUAZILAND ***

1. EMPLOYMENT BUREAU

   1. 1 x WANG

2. ICL DATA SERVICES

   1. 1 x ICL 2903 — 135 K bytes

3. LIBBYS

   1. 1 x NCR 8200

4. MHLUME SUGAR CO. LTD.

   1. 1 x ICL 2903 — 128 K bytes

5. ROYAL SWAZILAND SUGAR CORPORATION

   1. 1 x WANG VS-80 — 512 K Bytes — 1980 — Owned
   2. 1 x WANG — Diskette reader, 8 inches, 1 M byte/second
      2 x WANG CDC — Magnetic disk units, 288 M bytes - 1.2 M bytes/second
      1 x WANG — Line printer, 600 lines/minute
      16 x WANG — Video display terminals, 16 K RAM
      1 x WANG — Dual purpose video display unit, data/word processor
   3. RELEASE 5.1
   4. FORTRAN (O), COBOL (E), ASSEMBLY (O), PL/1 (N), RPG (N)
   6. Systems and programming staff (1), computer operations staff (2), data entry staff (4)

6. SIMUNYE SUGAR ESTATE

   1. 1 x WANG — 32 K bytes

7. SWAZIBANK

   1. 1 x NCR VRX 8455 — 1024 K bytes — 1982 — Rented
   2. 1 x NCR 6831 — Card reader, 600 characters/minute
      4 x NCR 658 — Magnetic disk unit, 100 M bytes
      2 x STC 1200 — Modems, 2400 bands
      14 x NCR 2261 — Commercial Bank terminals
      2 x NCR 766-11 — Video ray tubes
      2 x NCR 6420 — Band printer, 600 lines/minute, 132 characters/line
      1 x NCR 6342 — Magnetic tape unit, 80 K bytes
      1 x NCR 6440 — Matrix printer
   3. VRX

*** SWAZILAND / SOUAZILAND ***

4. COBOL (E), NEAT/3 (O), NEAT/VS (O)
5. TCBS (E), SSS (O)
6. Systems and programming staff (4), computer operations staff (4)

8. SWAZILAND DEVELOPMENT AND SAVINGS BANK

1.	1 x NCR - V 8455		1982	Rented

9. SYSTEGRAM (COMPUTER BUREAU)

1.	1 x NCR 8200			

10. SWAZILAND NATIONAL PROVIDENT FUND

1.	1 x ICL 2903 SER 2/40	135 K bytes	1980	Rented

11. SWAZILAND GOVERNMENT COMPUTER CENTRE
TREASURY

1.	1 x ICL 2904	200 K bytes	1974	Rented

12. USUTU PULP CO.

1.	1 x NCR 8555 M(V)	1024 K bytes	1979	Rented

*** TANZANIA / TANZANIE ***

1. MINISTRY OF FINANCE AND PLANNING

1.	1 x ICL 1902 T	48 K bytes	1980	Rented

2. NATIONAL PROVIDENT FUND

1.	1 x ICL 8950 KEY-EDIT	8 key data terminals Magnetic tape unit Line printer		

4. COBOL ICL 1900 SERIES (E)
6. Systems and programming (7), computer operations (21), off-line operations(9)

3. SHELL AND B.P. TANZANIA LTD.

1.	1 x IBM 32/c 44	96 K bytes	1978	Owned

4. TANZANIA ELECTRIC SUPPLY COMPANY LTD.

1.	1 x ICL 1902 S	96 K bytes	1974	Rented

5. TANGANYIKA FARMERS ASSOCIATION

1.	1 x ICL 1901 A	8 K bytes	1971	Rented

6. TANZANIA HARBOUR AUTHORITY

1.	1 x ICL 1902 T	144 K bytes	1980	Owned

7. TANZANIA TREASURY

1.	1 x ICL 1902 T	48 K bytes	1980	Rented
	1 x ICL 1902 A	16 K bytes	1969	Rented
2.	12 x ICL	Card punch machine		
	10 x ICL	Card punch verifier		
	2 x ICL 2101	Card reader, 600 characters/minute		
	2 x ICL 1932	Line printer, 600 lines/minute		
	10 x ICL 1971/2	Magnetic tape unit, 7 tracks, 556 bpi, 20 K bytes/second		
	2 x ICL	Operator consoles		

3. EXECUTIVE
4. COBOL (E), FORTRAN (O), PLAN (O), PL/1 (N), RPG (N)
5. CONCENTS (O)
6. Systems and programming (10),computer operations (8), data entry (33), off-line operations (8)

8. UNIVERSITY OF DAR-ES-SALAAM

1.	1 x ICL 1902	64 K bytes	1972	Rented
	1 x ICL ME 29	1028 K bytes	1982	Owned

*** TANZANIA / TANZANIE ***

9. WILLIAMSON DIAMONDS LTD.

1. 1 x IBM 5408 32 K bytes 1980 Owned
2. 1 x IBM SYSTEM 3 MODEL 8 39600 characters/minute, 300 lines/minute
4. FORTRAN (O), RPG (E)
5. £ RPG, £FORT, £SORT
6. Systems and programming (2), computer operations (3), data entry (5), off-line operations (2)

*** TOGO ***

1. AFRICOM
   1. 1 x SHARP MZ 80B 1982
2. ASCECNA
   1. 1 x HP 925
   4. BASIC
3. BANQUE INTERNATIONALE POUR L'AFRIQUE OCCIDENTALE
   1. 1 x CII-HB 61/40 1978
      1 x CII-HB DPS 4/61 1983
   3. GCOS 61, GCOS4
   4. COBOL
4. BANQUE OUEST AFRICAINE DE DEVELOPPEMENT
   1. 1 x CII-HB 61/40 1978
   3. GCOS 61
   4. COBOL
5. BONELEC
   1. 1 x SHARP MZ 80K 1981
   3. BASIC SHARP
   4. BASIC, PASCAL, ASSEMBLEUR
6. BRASSERIE DU BENIN
   1. 1 x NCR 19020 128 K Octets 1981
      1 x OLIVETTI AUDI 6 1981
   3. IMOS
      FDOS
   4. COBOL, FORTRAN, BASIC
      BAL
   5. CENETI
      1. 1 x IBM 4331 1000 K Octets
   6. CFAO
      1. 1 x OLIVETTI
   7. CNCA
      1. 2 x OLIVETTI BCS 2031 1982 et 1983
         1 x OLIVETTI AUDIT 6 1979
      3. FDOS
      4. BAL

*** TOGO ***

8. DIRECTION DE LA STATISTIQUE

2. IBM 3340 Unité disques magnétiques, 70 M Octets, 185000 caractères/seconde
IBM 3370 Unité disques magnétiques, 285 M Octets, 1 M caractères/seconde
IBM 8809 Derouleur bandes magnétiques, 80000 caractères/seconde
IBM 3864 Modems
IBM 3540 Lecteur à disquettes
IBM 3742 Dispositifs pour enregistrement sur disquettes
IBM 3262 Imprimante, 600 lignes/minute
IBM 3203 Imprimante, 1200 lignes/minute

3. DOS/VSE

4. FORTRAN IV, COBOL ANS, PL/1 OPTIMIZER, ASSEMBLEUR, RPG II

5. SPSS, CONCENTS, COBOL, CONCOR, CENTS

6. Système et programmation (1), enregistrement des données (32)

9. DHE

1. 2 x CII-HB QUESTAR CP 1022 1982

3. QIMOS

4. BAL, BASIC

10. EFOGERC

1. 1 x OLIVETTI BCS 2030 1982

2. FDOS

4. BALA

11. FAT

1. 1 x CII-HB 61/DPS 1982

3. GCOS 61

4. COBOL

12. OPAT

1. 1 x OLIVETTI BCS 2020 1982
3 x OLIVETTI AUDIT 1978

3. FDOS

4. BAL

13. ORSTOM

1. 1 x HP H8 1982

4. BASIC

*** TOGO ***

14. OTPP
    1. 1 x CII-HB 64 DPS/2 — 1 M Octets — 1982
    3. GCOS 64
    4. COBOL, FORTRAN, RPG II
15. PTT
    1. 1 x OLIVETTI AUDIT 5 — 1981
    3. FDOS
    4. BAL
16. SNI
    1. 1 x OLIVETTI AUDIT 5 — 1978
       1 x OLIVETTI AUDIT 6 — 1980
    3. FDOS
    4. BAL
17. STOCA
    1. 1 x OLIVETTI BCS 2030 — 1982
    3. FDOS
    4. BAL
18. SOTOGO
    1. 1 x OLIVETTI BCS 2030
    3. FDOS
    4. BAL
19. UTB
    1. 1 x CII-HB 64 DPS/4 — 2 M Octets — 1982
    3. GCOS 64
    4. FORTRAN, COBOL

*** TUNISIA/TUNISIE ***

1. CENTRE NATIONAL DE L'INFORMATIQUE
   1. 1 x CII-HB
2. INSTITUT NATIONAL DE LA STATISTIQUE
   1. 1 x IBM 370/125 — 256 K Octets — 1975 — Propre
   2. IBM 3340 — Unités disques magnétiques, 140 M Octets
      IBM 3410 — Dérouleurs bandes magnétiques
      IBM 3203 et 1403 — Imprimantes, 1200 et 1100 lignes/minute
      IBM 2501 — Lecteur optique
   3. DOS/VS
   4. FORTRAN (O), COBOL (E)
   5. TSP (O), ARIEL (O)
   6. Système et programmation (11), opérations de traitement (8), enregistrement des données (32)

*** UGANDA / OUGANDA ***

1. HYDROMET PROJECT (ENTEBBE)

   1. 1 x WANG — 16 K bytes

2. MINISTRY OF EDUCATION

   1. 1 x ICL 2903 — 72 K bytes

3. SHELL B.P. UGANDA

   1. 1 x IBM Sys 32 — 32 K bytes — 1980 — Owned
      1 x SIRIUS — 256 K bytes — 1983 — Owned
      1 x IBM Sys 23 — 128 K bytes — 1983 — Owned

   2. 4 x IBM 3742 — Key-to-disk system, single sided single density
      1 x IBM Sys 32 — Magnetic disk unit 13,777,920 bytes capacity
      1 x IBM Sys 32 — Line printer, 285 lines/minute
      1 x IBM Sys 32 — Video display unit, 6-line display, 40 characters
      1 x IBM Sys 23 — Two diskette drivers, 1 matrix printer 80 characters/second, 15 M bytes hard disk

   3. SCP
      MS-DOS-CPM 86
      CSF

   4. RPG II (E), BASIC (E)

   5. MULTIPLAN (E), MICRO EPS-FCS (E)

   6. Systems and programming staff (3) computer operations staff (2), data entry staff (3), off-line operations staff (2)

4. SOCIAL SECURITY FUND

   1. 1 x ICL 1901 A — 24 K bytes — 1976 — Owned
      1 x IBM 370 — 1982

5. UGANDA COMPUTER SERVICES

   1. 1 x ICL 1901 — 48 K bytes

*** UPPER VOLTA/HAUTE VOLTA ***

1. BANQUE INTERNATIONALE DES VOLTAS
   1. 2 x IBM 34 — 32 K Octets
2. BANQUE INTERNATIONALE POUR LE COMMERCE, L'INDUSTRIE ET L'AGRICULTURE
   1. 2 x IBM 34 — 32 K Octets
3. CENATRIN
   1. 1 x CII-HB 64 DPS
4. INSTITUT NATIONAL DE LA STATISTIQUE ET DE LA DEMOGRAPHIE
   1. 1 x IBM PC — 256 K Octets — 1983 — Propre
      1 x APPLE II PLUS — 64 K Octets — 1982 — Propre
   2. 1 — Lecteur de cartes
      1 x IBM 3741 — Dispositif pour enregistrement sur disquettes
      1 x CORVUS — Unité disques magnétiques
      1 x EPSON — Imprimante, 80 caractères/seconde
   3. PC DOS, DOS 3.3
   4. FORTRAN (O), BASIC (E)
   5. RAPID (O), VISICALC (O)
   6. Système et programmation (1), enregistrement des données (5)
5. OFFICE DES POSTES ET TELECOMMUNICATIONS
   1. 1 x NCR 8150 — 64 K Octets
6. SOCIETE SUCRIERE DE HAUTE VOLTA
   1. 1 x IBM 32
7. SOCIETE VOLTAIQUE D'ENGINEERING ET DE GESTION
   1. 1 x IBM 32

*** ZAIRE ***

1. BANQUE COMMERCIALE ZAIROISE
   1. 1 x IBM 370/135
   3. DOS/VS
   4. COBOL, ASSEMBLEUR, RPG
2. BANQUE DE KINSHASA
   1. 1 x IBM 370/135
   3. DOS
   4. COBOL
3. BANQUE DU PEUPLE
   1. 1 x HP 3000/2
   3. MPE
   4. COBOL, BASIC, SPL
4. BANQUE DU ZAIRE
   1. 1 x IBM 370/145
   3. DOS/VS
   4. FORTRAN, COBOL ANS, ASSEMBLEUR
5. DEPARTEMENT DES FINANCES
   1. 1 x IBM 370/155 1536 K Octets
   2. 1 x IBM 3215 CONSOLE
      16 x IBM 3330-1 Unités disques magnétiques, 100 M Octets
      1 x IBM 3333 Unité contrôle disques
      10 x IBM 3420 Modèle 7 dérouleurs de bandes
      2 x IBM 3803 Dérouleurs de bandes
      2 x IBM 3211 Imprimantes, 2000 lignes/minute
      2 x IBM 1403 Imprimantes, 1000 lignes/minute
   3. OS/MVT release 21.8 F
   4. FORTRAN IV-9, COBOL ANS, PL/1, ASSEMBLEUR, RPG
6. ENSEIGNEMENT SUPERIEUR ET RECHERCHE SCIENTIFIQUE
   1. 1 x IBM 360/40
   3. OS
   4. FORTRAN, COBOL, PL/1, ASSEMBLEUR

*** ZAIRE ***

7. GECAMINES
   1. 1 x IBM AS/5
   3. DOS/VS2
   4. COBOL

8. IBM - INT
   1. 1 x IBM 370/145
   3. DOS/VS
   4. COBOL, PL/1, RPG

9. INSTITUT NATIONAL DE LA STATISTIQUE
   1. 1 x IBM 1401 — 16 K Octets — 1972 — Propre
   2. 6 x IBM — Dérouleurs de bandes, 7 pistes
      3 x IBM 1311 — Unités disques magnétiques
      1 x IBM 1403 — Imprimante
      1 x NCR — Trieuse
      1 x NCR 82 — Trieuse
      12 x MDS 1101 — Systèmes monoclaviers équipés de dérouleurs de bandes, 7 pistes
   3. TOS
   4. AUTOCODEUR

10. CONATRA
    1. 1 x IBM 370/145 — 512 K Octets — 1981 — Propre
    3. DOS/VS
    4. COBOL, PL/1, RPG, ASSEMBLEUR

11. SERVICE PRESIDENTIEL DE L'INFORMATIQUE (SPI)
    1. 1 x HP 3000 SERIE II — 512 K Octets
       1 x HP 3000 SERIE II — 256 K Octets
       1 x HP 3000 SERIE II — 512 K Octets

*** ZAIRE ***

2. 9 x HP Unités disques magnétiques, 120 M Octets
   1 x HP Unités disques magnétiques, 50 M Octets
   7 x HP Unités bandes magnétiques
   3 x HP Imprimante, 1200 lignes/minute
   1 x HP Lecteur de cartes, 600 cartes/minute
  33 x HP Postes de travail (écrans)
3. MPE
4. FORTRAN, COBOL, RPG, BASIC

12. SOZACOM
1. 1 x HP 3000/2
3. MPE
4. COBOL, BASIC, SPL

13. SOZACOD
1. 1 x HP 3000/44 2 M Octets 1982
2. 3 x HP 792 5A Unités disques magnétiques
   2 x HP 2607 A Imprimantes
   2 x HP 7970 E Unités bandes magnétiques
  36 x HP 26 xx A Terminaux
3. MPE 4
4. FORTRAN (O), COBOL (E). RPG (O), SPL (O)
5. IMAGE 3000 (E), QUERY 3000 (E)
6. Système et programmation (5)

14. ZAIRE-FINA
1. 1 x IBM 370/135
3. DOS
4. COBOL, RPG

*** ZAMBIA / ZAMBIE ***

1. BARCLAYS BANK

1976

1. 1 x BURROUGHS

2. BEHREINS

1. 1 x BURROUGHS

3. BP ZAMBIA LTD.

1. 1 x IBM 5/3 MODEL 6	16 K bytes	1970	Owned
1 x IBM 5/34	96 K bytes	1983	
1 x IBM 5/5288 x 3	96 K bytes	1983	
2. 1 x IBM 3741	Diskette reader directly attached to CPU		
2 x IBM 3742	Key-to-disc system		
8 x IBM 5440	Magnetic disk unit, 5 M bytes, fixed and removable		
4 x APPLE II	Micro computers		
4 x IBM 222	Train printer, 50 lines/minute		
4 x CENTRONICS	Train printer, 120 characters/second, for APPLE II micro computer		
4 x HITACHI	Video display unit		

3. SSP
4. FORTRAN (N), COBOL (N), PL/1 (N), ASSEMBLY (N); RPG (E), BASIC (E)
5. VISICALC (E)
6. Systems and programming (3), computer operations (4), data entry (

4. COMPUTER BUYING CORPORATION OF ZAMBIA

1. 1 x ICL 2903	28 K bytes	1975	Rented
2 x ICL 150	16 K bytes	1980	Leased
2. 1 x ICL	Card reader, integrated in processor		
1 x ICL	Line printer, 300 lines/minute		
1 x ICL FEDS	Magnetic disk unit, 10 M bytes		
2 x ICL 2510/11	Magnetic tape units, 600 M bytes		
4 x ICL	Direct data entry		
30 x ICL 9512	Print of sale terminals		

3. JCL
4. FORTRAN (N), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (N), PLAN (E)
5. ICL ZAMPAY (Local Product) (E)
6. Systems and programming (4), computer operations (3), data entry

5. ICL BUREAU

1. 1 x ICL 2903 48 K bytes

*** ZAMBIA / ZAMBIE ***

6. INDECO LTD.

1.	2 x IBM 5410	16 K bytes	1974	Owned
2.	1 x IBM 3741-003	Diskette reader, single density - 230,400 bytes		
	9 x IBM 3742-001	Diskette reader, single density - 230,400 bytes		
	2 x IBM 5444	Magnetic disk unit, 25 M bytes		
	2 x IBM 5203	Line printer, 200 lines/minute		
	2 x IBM 3741-001	Direct data entry station - dual purpose for diskette unit and key record entry		

3. SCP/DOS
4. FORTRAN (N), COBOL (N), PL/1 (N), ASSEMBLY (N), RPG (E)
6. Systems and programming (11), computer operations staff (10), data entry staff (9)

7. INDUSTRIAL CASES

1.	1 x WANG 2200 MVP	32 K bytes	1981	

8. KITWE URBAN DISTRICT COUNCIL

1.	1 x ICL 2903/40	32 K bytes	1980	Rented
2.	1 x IBM	Card punch machine		
	1 x IBM 2108	Card reader, 300 cards/minute		
	1 x IBM 2251	Direct data entry, 256 characters - screen		
	1 x IBM 2815	Magnetic disk unit, 60 M bytes		
	1 x IBM 2423	Line printer, 600 lines/minute		
	2 x IBM 2822/01	Magnetic disk units, 5M bytes		

3. JCL
4. COBOL (E), PLAN (O)
5. FIND 1 (O), ICL VERSION 22 (E)
6. Systems and programming (6), computer operations staff (2), data entry (10), off-line operations (3)

9. LUSAKA CITY COUNCIL

1.	1 x ICL 1901 T	72 K bytes		

10. MAZEMBE TRACTORS

1.	1 x IBM 370/135	384 K bytes	1976	Owned
2.	10 x IBM 3272	Direct data entry		
	10 x ICL 1501	Key-to-tape machine		
	6 x IBM 3340	Magnetic disk unit, 70 M bytes, removable		
	4 x RASCAL LS 127	Modems, 4800 bauds		
	2 x RASCAL LS 126	Modems, 2400 bauds		
	1 x COMLINK	Modems, 2400 bauds		
	1 x IBM 1443	1100 lpm		
	3 x IBM	Magnetic tape units, dual density		

3. DOS/VS

*** ZAMBIA / ZAMBIE ***

4. FORTRAN (N), COBOL (E), PL/1 (E), ASSEMBLY (O), RPG (O)
6. Systems and programming (7), computer operations (5), data entry (13)

11. NATIONAL IMPORT-EXPORT CORPORATION

1.	1 x ICL 2903	84 K bytes	

12. MINISTRY OF FINANCE

1.	1 x IBM 370/145	208 K bytes	1973

13. MINISTRY OF HOME AFFAIRS

1.	1 x IBM 370/135	320 K bytes	

14. NATIONAL AGRICULTURAL MARKETING BOARD

1.	1 x ICL 2903 MODEL 30	32 K bytes	1979	Rented
2.	1 x NCR 0026	Auto feed key punch machine, 80 columns		
	1 x ICL 2108	Card reader, 300 cards/minute		
	1 x ICL 2251	Key board with video monitor		
	7 x ICL 8950	Key-to-tape machine, 24 K bytes storage system		
	2 x ICL 2822	Magnetic disk unit, FEDS 416 K bytes/seconde 9.8 M bytes		
	2 x ICL 2510	Magnetic tape units, 9 tracks, 800/1600 bpi, 80 characters/second		
	1 x ICL 2411	Line printer, 300 lines/minute		

3. EXECUTIVE 1
4. FORTRAN (N), COBOL (E), PL/1 (N), RPG (N), ASSEMBLY (O)
5. ZAMPAY (E), DEBTORS (E), FIND 2 (O), STOCKS (E), MIS (O)
6. Systems and programming (9), computer operations (4), data entry (7), off-line operations (1)

15. NCHANGA CONSOLIDATED COPPER MINES

1.	1 x IBM 370/158	2000 K bytes	

16. NDOLA URBAN CITY COUNCIL

1.	1 x ICL 2903	28 K bytes	1979	Rented
2.	1 x ICL	Card reader, 300 cards/minuts		
	1 x ICL	Line printer, 300 lines/minute		
	1 x ICL	Direct data entry, 4 key-stations		
	2 x ICL	Magnetic disk units, FEDS unit EDS-5		
	2 x ICL	Magnetic tape units, 9-tracks		
	1 x ICL	Video console		

*** ZAMBIA / ZAMBIE ***

4. COBOL (E)
5. FIND 2 (E), DMS (E)
6. Systems and programming (5), computer operations (2), data entry (5)

17. PEAT MARWICK

1. 1 x MEMORY 7000

18. ROAN CONSOLIDATED COPPER MINES

1. 1 x IBM/150 512 K bytes

19. UNIVERSITY OF ZAMBIA

1. 1 x ICL 2904/50 112 K bytes 1980 Rented
2. ICL 2101/00 Card reader 600 cards/minute
   ICL 2251/01 Direct data entry stations
   ICL 2815/02 Magnetic disk unit, EDS 60 transport
   ICL 2423/01 Line printer, 600 lines/minute
   ICL 5211/01 Magnetic tape unit, 9-track, 60 characters/second
   ICL 7561/02 Video display unit/terminal
   ICL 2904 Video console
3. E8380/55
4. FORTRAN (E), COBOL (E), RPG (O), ALGOL (O)
5. SPSS (E), PERT (O), PROSPER (O), LINEAR PROGRAMMING (O)
6. Systems and programming (22), computer operations staff (7), data entry staff (8)

20. USICA

1. 1 x WANG 2200 64 K bytes 1981

21. ZAMBIA AIRWAYS

1. 1 x 5410 16 K bytes 1972 Owned

22. ZAMBIA ELECTRICITY

1. 1 x ICL 2903/40 120 K bytes

23. ZAMBIA NATIONAL PROVIDENT FUND

1. 1 x ICL 2903/40 120 K bytes

*** ZAMBIA / ZAMBIE ***

23. ZAMBIA NATIONAL PROVIDENT FUND

1.	1 x ICL 2903/40	120 K bytes		

24. ZAMBIA RAILWAYS CORPORATION LTD.

1.	1 x IBM 5410	16 K bytes	1972	Owned
2.	1 x IBM 3741	Diskette reader		
	3 x IBM 3742	Key-to-diskette system		
	1 x IBM 5203	Line printer, 200 lines/minute		
	3 x IBM 5444	Magnetic disc unit, 2.5 M bytes each		

4. FORTRAN (N), COBOL (N), PL/1 (N), ASSEMBLY (N), RPG (E)
6. Systems and programming (1), Computer operations (2), data entry (7), off-line operations (3)

*** ZIMBABWE ***

1. BIOMETRICS

1. 1 x PERKIN ELMER	512 K bytes	1977	Owned

2. CABS

1. 1 x ICL 1900	128 K bytes		

3. C.F. TULLEY ASSOCIATES

1. 1 x ICL 1903 A	64 K bytes	1979	Owned
1 x DATA GENERAL MV 8000	4 M bytes	1983	Owned
1 x DATA GENERAL NOVA 4	256 K bytes	1981	Owned

2. INFOREX — 12 Key stations 1301
32 — Video disc unit, asynchronous

3. 3 x DATA GENERAL AND ICL — Line printers, 600, 900 and 1500 lines/minute
1 x DATA GENERAL NOVA 4 — Mini computer, 9 terminals and disk
1 x COMMODORE — Micro computer, 96 K bytes + 2 M bytes disk
3 x DATA GENERAL — Magnetic disk units, 147 M bytes each
7 x ICL — Magnetic disk units, 30 M bytes each
1 x ICL — Card reader, 600 cards/minute
1 x IBM — Card punch machine
1 x IBM — Card punch verifier
1 x ICL — Card punch machine

4. GEORGE II
AOS/VS
RDOS

5. FORTRAN (E), COBOL (E), PL/1 (E), ASSEMBLY (E), RPG (E), PASCAL (E)
6. FINLOS (E), EPS/FCS (E), VISICALC (E), MANLOS (N), PAYPAL (N), SPSS (O), IMSL (O)
7. Systems and programming (66), computer operations (42), data entry (59), off-line operations (17)

4. CIMAS

1. 1 x NCR 615/151	128 K bytes		

5. COMPUTER PROCESSING

1. 1 x NCR 615/200

6. FARMERS CO-OPERATION

1. 1 x ICL 1900

7. ICL

1. 1 x ICL 1901

*** ZIMBABWE ***

8. MINISTRY OF FINANCE

1.	1 x NCR 615/200	584 K bytes	1972	Owned
	1 x DATA GENERAL ECLIPSE C350	750 K bytes	1980	Owned
	1 x CRITERION	2000 K bytes	1982	Owned

9. MINISTRY OF AGRICULTURE, RESEARCH DEPARTMENT AND SPECIALIST SERVICES

1.	1 x PERKIN ELMER 3220	512 K bytes
2.	PERKIN ELMER	Video disk units
	WANG CO	Magnetic tape units, 800-6250 bpi
	WANG CO	Magnetic disk unit, 5-67 M bytes
	NOBLE COMPUTERS	Line printer, 600 lines/minute
	DOCUMENTATION	Card reader, 300 cards/minute

3. MSM
4. FORTRAN (E), ASSEMBLY (O), BASIC (O)
5. GENSTAT (E), EDIT (E), COPY (E), AIOS (O), MTM (E)
6. Systems and programming (7), computer operations (7), data entry (2)

10. MUNICIPALITY OF SALISBURY

1. 1 x IBM 360

11. NCR

1. 1 x NCR 615/251 500 K bytes

12. POSTS AND TELECOMMUNICATIONS CORPORATION

1.	1 x ICL 2955	3 M bytes	1983	Rented
2.	1 x ICL 29	Auto key punch machine, 80 columns		
	1 x ICL 66	Auto key punch machine, 80 columns		
	1 x ICL 129	Auto key verifier, 80 columns		
	1 x ICL 166	Auto key verifier, 80 columns		
	1 x ICL 51104/01	Card reader, 300 cards/minute		
	2 x INFOREX 1302	Key-to-disc system, 16 K bytes memory, disk capacity 18,000 x 125 bytes, 7 track, 556-bpi magnetic tape unit, 16 key stations		
	3 x ICL 2955-53221/12	Magnetic disk unit, EDS 80 + FDS 160 drive pair, transfer rate 1.2 M bytes/second, capacity 240 M bytes		
	1 x ICL DRS 20/33	Terminal cluster controller with 6 video work stations		
	3 x ICL DRS 20/40	Dual 1 M byte diskette 'N' mode, 64 K bytes video and keyboard		
	2 x ICL MICROLINE 83A	Matrix printer, 120 characters/second		
	2 x ICL 3182 (3)	Correspondence quality, 55 characters/second		
	2 x ICL LP 1440 (P,B.)	Line printer, 1440 lines/minute using 48-character set		

*** ZIMBABWE ***

6 x ICL MT 120 T	Magnetic tape units, 1600 bits/inch, 120 K bytes/second, 9 track
2 x ICL 1972/01	Magnetic tape units, 556 bits/inch, 80 K bytes/second, 7 track

3. GEORGE 2
4. FORTRAN (O), COBOL (E), PL/1 (N), ASSEMBLY (N), RPG (N)
5. FIND 2 (O)
6. Systems and programming (6), computer operations (9), data entry (46), off-line operations staff (7)

13. PROTEA MEDICAL SERVICES

1. 1 x PERKIN ELMER INTERDATA

14. P. T. C.

1. 1 x ICL 1900

15. RHO BANK

1. 1 x NCR 615/151 — 128 K bytes

16. SCIENTIFIC COMPUTER CENTRE

1. 1 x PERKIN ELMER 3252	6 M bytes Owned
2. 2 x TEKTRONICS	Graph plotter
64 x PERKIN ELMER 1251	Key board terminal
7 x CDC 300	Magnetic disk unit
34 x RACAL MILGO	Modems
2 x DPC	Line printer, 900 lines/minute
3 x PERKIN ELMER	Magnetic tape unit
1 x PERKIN ELMER	Video display unit
34 x MICRO 800/2	Data concentrators
17	Matrix printers, 180 characters/second
7	Daisy wheel printers, 45 characters/second

3. OS/32
4. FORTRAN (E), COBOL (E), PL/1 (N), ASSEMBLY (O), BASIC (O)
5. GENSTAT (O), COBOL-CONCOR (E), CENS4 (O), RPSS (O), EDIT (E), DBMS (E)
6. Systems and programming (4), computer operations (2), data entry (2)

17. S. M. S.

1. 1 x FBM 360

*** ZIMBABWE ***

18. UNIVERSITY COMPUTER CENTRE

1.	1 x ICL 2946	4 M bytes 1981	Owned
2.	6 x IBM 029	Card punch machine	
	1 x IBM 025	Card punch-verifier	
	1 x ICL	Card reader	
	1 x HP 9860	Graph plotter	
	4 x ICL EDS 200	Magnetic disk unit, 800 M bytes	
	1 x ICL	Line printer, 720 lines/minute	
	2 x ICL	Magnetic tape units, 1600 bpi, 60 K bytes/second	
	16 x ICL 7961	Video display units, synchronous	
	4 x PE 6521	Video display units, asynchronous	

3. VME 2900

4. FORTRAN (E), COBOL (O), PASCAL (E), BASIC (E)

5. SPSS (E), TSP (O), NAG (O), TRUS (O), FARMAP (O), ADINA (O)
ECAP (O), STAF (O)

6. Systems and programming (1), computer operations (3), data entry (1)

19. WINDMILL FERTILIZER

1. 1 x DATA GENERAL C305

20. ZIMBABWE RAILWAYS

1. 1 x NCR 615/300

Table 1. Current EDP tasks (average cpu time per day in minutes) performed by organiz
Tableau Tâches en matière de TEI (temps moyen d'unité centrale par jour en minutes)

( ) = Percentage of total processing time

Sub-regions/Sous regions Country/Pays Institution	Population census/ Recensement de la Population	Foreign trade/ Commerce Extérieur	Labour force/ Main d'oeuvre	Ho En de
CENTRAL AFRICA/AFRIQUE CENTRALE				
Rwanda Bureau national de recensement	1260 (100)	-	-	
EASTERN AND SOUTHERN AFRICA/ AFRIQUE DE L'EST ET AUSTALE				
Botswana Government Computer Bureau	... (2)	-	-	
Comoros/Comores FNUAP/TCD	780	-	-	
Ethiopia/Ethiopie Central Statistical Office	-	-	12.6 (3)	
Kenya Central Bureau of Statistics	50 (4)	10.(1)	20 (2)	
Lesotho Bureau of Statistics	-	140 (33)	-	
Malawi National Statistical Office	360 (20)1/	140 (6)	-	
Mauritius/Maurice Central Statistical Office	-	-	-	
Ministry of Finance	-	60 (6.3)	45 (4.7)	
Somalia/Somalie Central Statistical Department	-	-	-	
Swaziland/Souaziland Government Computer Centre	...	...	-	
Tanzania/Tanzanie Treasury	30	30	45	
Zimbabwe Scientific Computer Centre	250 (80)	-	-	

Notes: 1/ Population survey/Enquête de population.
2/ Micro-computer used for forecasting purposes of national account data; oth
projections de comptabilité nationale; les autres travaux statistiques sor

Users engaged on government statistical work (continued)
Activités exécutées par les organisations chargées des statistiques du secteur public (suite)

( ) = Pourcentage du temps total de traitement

ehold survey/ête auprès ménages	Other statistical Activities/Autres Activités statistiques	Payroll/ Etats de Paye	General Accounts Comptabilité Générale	Training Activities/ Activités de formation	Other/Autres
-	-	-	-	-	-
-	... (31)	... (10)	... (10)	-	... (47)
-	-	-	-	300	-
63 (12)	129.6 (25)	-	-	-	-
15 (1.5)	...	-	-	-	-
-	100 (43)	-	-	-	...
-	220 (11)	-	-	160 (8)	...
-	...2/	-	-	-	-
10 (1)	60 (6.2)	200 (20.8)	150 (15.6)	-	435 (45.4)
-	330 (85)	-	-	60 (15)	-
-	-	...	...	...	...
15	-	480	-	15	300
-	50 (5)	-	-	-	150 (15)

statistical tasks performed by the Ministry of Finance/Micro-ordinateur utilisé pour les effectués par le Ministère des Finances.

Table 1. Current EDP tasks (average cpu time per day in minutes) performed by
Tableau 1. Tâches en matière de TEI (temps moyen d'unité centrale par jour en min

( ) = Percentage of total processing time

Sub-regions/Sous regions Country/Pays Institution	Population census/ Recensement de la Population	Foreign trade/ Commerce Extérieur	Labour force/ Main d'oeuvre
NORTH AFRICA/AFRIQUE DU NORD			
Morocco/Maroc Direction de la statistique	112 (27)	-	37 (9)
Tunisia/Tunisie Institut national de la statistique	-	30 (7)	-
WEST AFRICA/AFRIQUE DE L'OUEST			
Cape Verde/Cap Vert Direction des recensements et enquêtes	600 (90)	-	-
Ghana ... Central Bureau of Statistics	-	180	45
Liberia Ministry of Planning and Economic Affairs	-	... (11)	-
Mali Direction Générale de la Statistique et de l'Informatique	20 (3)	20 (3)	20 (3)
Nigeria Federal Office of Statistics	-	180 (38)	-
Togo CENETI	55 (6)	15 (2)	10 (1)
Upper Volta/Haute Volta Institut national de la Statistique et de la démographie	-	-	-
CENTRAL AFRICA/AFRIQUE CENTRALE			
Cameroon/Cameroun Direction centrale de l'Informatique et de la téléinformatique	-	... (10)	-

ganizations engaged on government statistical work
es) exécutées par les organisations chargées des statistiques du secteur public

( ) = Pourcentage du temps total de traitement

Household Survey/ Enquête auprès des ménages	Other statistical Activities/Autres Activités Statistiques	Payroll/ Etats de Paye	General Accounts/ Comptabilité Générale	Training Activities/ Activités Formation	Other/Autres
18 (4)	73 (11)	-	-	-	172 (49)
120 (28)	-	180 (42)	-	-	100 (23)
-	-	-	-	-	...
-	120	180	60	120	60
... (3)	... (11)	... (34)	-	-	... (41)
30 (3)	...	120 (18)	10 (2)	30 (4)	30 (4)
120 (25)	-	-	-	60 (12)	120 (25)
-	45 (5)	150 (17)	-	120 (13)	...
..	300 (95)	-	-	15 (5)	-
... (30)	-	-	-	... (10)	... (50)

Table 3. Formal electronic data processing training centres in Africa, 1983
Tableau Centres institutionnalisés de formation du traitement automatique de l'information

Sub-regions/Sous régions Countries/Pays	Training centres/ Centres de formation
NORTH AFRICA/ AFRIQUE DU NORD	
Morocco/Maroc	Institut national de statistique et d'économie appliquée (INSEA), Rabat
Tunisia/Tunisie	Faculté des Sciences de Tunis Institut supérieur de gestion, Tunis Ecole des P.T.T., Tunis
WEST AFRICA/AFRIQUE DE L'OUEST	
Ghana	University of Science and Technology, Kumasi, University of Ghana, Legon, Accra.
Ivory Coast/Côte d'Ivoire	INSET, Abidjan OCM, Abudjan
Nigeria	University of Amadu Bello, Zaire University of Ibadan University of Ife University of Lagos, Akola University of Nigeria, Nsuka
Senegal/Sénégal	Direction du traitement automatique de l'information (DTAI) Dakar
Upper Volta/Haute Volta	CENATRIN, Ouagadougou
CENTRAL AFRICA/AFRIQUE CENTRALE	
Cameroon/Cameroun	Institut pour le développement informatique (IDIA), Yaoundé
Gabon	Institut africain d'informatique (IAI), Libreville
Rwanda	Université nationale du Rwanda, Butare Institut africain et mauricien de statistique et d'économie appliquée (IAMSEA), Kigali

Table 3. Formal electronic data processing training centres in Africa, 1983 (cont'd.)
Tableau Centres institutionnalisés de formation du traitement automatique de l'information (suite)

Sub-regions/Sous régions Countries/Pays	Training centres/ Centres de formation
CENTRAL AFRICA/AFRIQUE CENTRALE	
Zaire	Institut supérieur de commerce Service présidentiel d'informatique de la Présidence Ecole des Finances
EAST AND SOUTHERN AFRICA/ AFRIQUE DE L'EST ET AUSTRALE	
Botswana	Botswana training centre, Gaborone
Ethiopia/Ethiopie	Addis Ababa University Ethiopian Airlines, Addis Ababa
Kenya	Associated Computers Services, Nairobi Institute of Computer Science, University of Nairobi
Madagascar	Ecole nationale de l'informatique, Centre Universitaire regional de Fianarantsoa
Malawi	Malawi Polytechnic, Blantyre Chancellor College, University of Malawi
Somalia/Somalie	Institute of Statistics and Applied Economics, Central Statistical Department, Mogadishu
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